

- (i) APPLICANTS: Boon-Falleur, Thierry; Van der Bruggen, Thierry; Van den Eynde, Benoît; Van Pel, Aline; De Plaen, Etienne; Lurquin, Christophe; Chomez, Patrick; Traversari, Catia
- (ii) TITLE OF INVENTION: Tumor Rejection Antigen Precursors, Tumor Rejection Antigens and Uses Thereof
- (iii) NUMBER OF SEQUENCES: 28
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Fulbright & Jaworski LLP
 - (B) STREET: 666 Fifth Avenue
 - (C) CITY: New York City
 - (D) STATE: New York
 - (E) COUNTRY; USA
 - (F) ZIP: 10103
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 - (B) COMPUTER: IBM
 - (C) OPERATING SYSTEM: PC-DOS
 - (D) SOFTWARE: Wordperfect
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/819,669
 - (B) FILING DATE: 17-March-1997
 - (C) CLASSIFICATION: 435
- (vii) PRIOR APPLIATION DATA:
 - (A) APPLICATION NUMBER: 08/142,368
 - (B) FILING DATE: 02-MAY-1994
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: PCT/US92/04354
 - (B) FILING DATE: 22-MAY-1992
- (vii) PRIOR APPLICATION DATA:
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 - (A) APPLICATION NUMBER: 07/764,364
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- (vii) PRIOR APPLICATION DATA:

576670.1

- (A) APPLICATION NUMBER: 07/705,702
- (B) FILING DATE: 23-May-1991

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Hanson, Norman D.
- (B) REGISTRATION NUMBER: 30,946
- (C) REFERENCE/DOCKET NUMBER: LUD 5253.5-US
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (212)318-3168
 - (B) TELEFAX: (212) 752-5958
- INFORMATION FOR SEQUENCE ID NO: 1: (2)
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 462 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

ACCACAGGAG	AATGAAAAGA	ACCCGGGACT	CCCAAAGACG	CTAGATGTGT	GAAGATCCTG	60
ATCACTCATT	GGGTGTCTGA	GTTCTGCGAT	ATTCATCCCT	CAGCCAATGA	GCTTACTGTT	120
CTCGTGGGGG	GTTTGTGAGC	CTTGGGTAGG	AAGTTTTGCA	AGTTCCGCCT	ACAGCTCTAG	180
CTTGTGAATT	TGTACCCTTT	CACGTAAAAA	AGTAGTCCAG	AGTTTACTAC	ACCCTCCCTC	240
CCCCCTCCCA	CCTCGTGCTG	TGCTGAGTTT	AGAAGTCTTC	CTTATAGAAG	TCTTCCGTAT	300
AGAACTCTTC	CGGAGGAAGG	AGGGAGGACC	CCCCCCTTT	GCTCTCCCAG	CATGCATTGT	360
GTCAACGCCA	TTGCACTGAG	CTGGTCGAAG	AAGTAAGCCG	CTAGCTTGCG	ACTCTACTCT	420
TATCTTAACT	TAGCTCGGCT	TCCTGCTGGT	ACCCTTTGTG	CC		462

- (2) INFORMATION FOR SEQUENCE ID NO: 2:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 675 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: genomic DNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

ATG	TCT	GAT	AAC	AAG	AAA	CCA	GAC	AAA	GCC	CAC	AGT	GGC	TCA	GGT	GGT	48
Met	Ser	Asp	Asn	Lys	Lys	Pro	Asp	Lys	Ala	His	Ser	Gly	Ser	Gly	Gly	
		_		⁻ 5	_				10					15		

Asp	Gly	Asp	Gly 20	Asn	Arg	Cys	Asn	Leu 25	Leu	His	Arg	Tyr	Ser 30	Leu	Glu	
	ATT Ile												GTC			144
7 CIII	200	35	000	CITIC .	ar a	3 mg	40	3 M 3	ar a	aaa	cmm.	45	G 3 G	G3 G	G3.G	100
	TTT Phe 50															192
	GAA Glu															240
	GTC Val															288
	GAC Asp															336
	GAA Glu															384
	GAA Glu 130						GAA									432
	GCT Ala															480
	GAA Glu															528
	GTG Val															576
	AAT Asn															624
	GAG Glu	GAG					ATG				GAT					672
TAG																675

(2) INFORMATION FOR SEQUENCE ID NO: 3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 228 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GCATGCAGTT	GCAAAGCCCA	GAAGAAAGAA	ATGGACAGCG	GAAGAAGTGG	TTGTTTTTT	60
TTCCCCTTCA	TTAATTTTCT	AGTTTTTAGT	AATCCAGAAA	ATTTGATTTT	GTTCTAAAGT	120
TCATTATGCA	AAGATGTCAC	CAACAGACTT	CTGACTGCAT	GGTGAACTTT	CATATGATAC	180
ATAGGATTAC	ACTTGTACCT	GTTAAAAATA	AAAGTTTGAC	TTGCATAC		228

- (2) INFORMATION FOR SEQUENCE ID NO: 4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1365 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

ACCACAGGAG AATGAAAAGA ACCCGGGACT CCCAAAGACG CTAGATGTGT	50
GAAGATCCTG ATCACTCATT GGGTGTCTGA GTTCTGCGAT ATTCATCCCT	100
CAGCCAATGA GCTTACTGTT CTCGTGGGGG GTTTGTGAGC CTTGGGTAGG	150
AAGTTTTGCA AGTTCCGCCT ACAGCTCTAG CTTGTGAATT TGTACCCTTT	200
CACGTAAAAA AGTAGTCCAG AGTTTACTAC ACCCTCCCTC CCCCCTCCCA	250
CCTCGTGCTG TGCTGAGTTT AGAAGTCTTC CTTATAGAAG TCTTCCGTAT	300
AGAACTCTTC CGGAGGAAGG AGGGAGGACC CCCCCCTTT GCTCTCCCAG	350
CATGCATTGT GTCAACGCCA TTGCACTGAG CTGGTCGAAG AAGTAAGCCG	400
CTAGCTTGCG ACTCTACTCT TATCTTAACT TAGCTCGGCT TCCTGCTGGT	450
ACCCTTTGTG CC	462
ATG TCT GAT AAC AAG AAA CCA GAC AAA GCC CAC AGT GGC TCA	504
GGT GGT GAC GGT GAT GGG AAT AGG TGC AAT TTA TTG CAC CGG	546
TAC TCC CTG GAA GAA ATT CTG CCT TAT CTA GGG TGG CTG GTC	588
TTC GCT GTT GTC ACA ACA AGT TTT CTG GCG CTC CAG ATG TTC	630
ATA GAC GCC CTT TAT GAG GAG CAG TAT GAA AGG GAT GTG GCC	672
TGG ATA GCC AGG CAA AGC AAG CGC ATG TCC TCT GTC GAT GAG	714
GAT GAA GAC GAT GAG GAT GAG GAT GAC TAC TAC GAC GAC	756
GAG GAC GAC GAC GAT GCC TTC TAT GAT GAT GAG GAT GAT	798
GAG GAA GAA TTG GAG AAC CTG ATG GAT GAA TCA GAA	840
GAT GAG GCC GAA GAA GAG ATG AGC GTG GAA ATG GGT GCC GGA	882
GCT GAG GAA ATG GGT GCT GGC GCT AAC TGT GCC TGT GTT CCT	924
GGC CAT CAT TTA AGG AAG AAT GAA GTG AAG TGT AGG ATG AT	966
TAT TTC TTC CAC GAC CCT AAT TTC CTG GTG TCT ATA CCA GTG	1008
AAC CCT AAG GAA CAA ATG GAG TGT AGG TGT GAA AAT GCT GAT	1050
GAA GAG GTT GCA ATG GAA GAA GAA GAA GAA GAG GAG GAG	1092
GAG GAG GAA GAG GAA ATG GGA AAC CCG GAT GGC TTC TCA CCT	1134
TAG	1137
GCATGCAGTT GCAAAGCCCA GAAGAAAGAA ATGGACAGCG GAAGAAGTGG	1187
TTGTTTTTTT TTCCCCTTCA TTAATTTTCT AGTTTTTAGT AATCCAGAAA	1237
ATTTGATTTT GTTCTAAAGT TCATTATGCA AAGATGTCAC CAACAGACTT	1287
CTGACTGCAT GGTGAACTTT CATATGATAC ATAGGATTAC ACTTGTACCT	1337
GTTAAAAATA AAAGTTTGAC TTGCATAC	1365

- (2) INFORMATION FOR SEQUENCE ID NO: 5:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4698 base pairs

 - (B) TYPE: nucleic acid(C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: genomic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

ACCACAGGAG A	ATGAAAAGA	ACCCGGGAC'	T CCCAAAGACG	CTAGATGTGT	50
GAAGATCCTG A					100
CAGCCAATGA G			G GTTTGTGAGC		150
AAGTTTTGCA A			G CTTGTGAATT		200
			C ACCCTCCCTC		250
		-	C CTTATAGAAG		300
AGAACTCTTC C					350
			G CTGGTCGAAG		400
			T TAGCTCGGCT		450
ACCCTTTGTG C					462
ATG TCT GAT		AA CCA GAC	AAA GCC CAC	AGT GGC TCA	504
	GGT GAT GG				546
	GAA GAA AT		TAT CTA GGG	TGG CTG GTC	588
TTC GCT GTT			CTG GCG CTC	CAG ATG TTC	630
ATA GAC GCC		AG GAG CAG			672
TGG ATA GCC				GTC GAT GAG	714
	GAT GAG GA			TAC GAC GAC	756
	GAC GAC GA		TAT GAT GAT		798
GAG GAA GAA					840
GAT GAG GCC					882
GCT GAG GAA				T	916
GTGAGTAACC C				_	966
			A TTTTGGTTGG		1016
TGGAGCCATT C			C CTATCCCCGC		1066
	GCTCCGCTC	TCTTTCCTT		CCTCTGGAGC	1116
TTCAGTCCAT C			C CTTTGCTCTC		1166
TCCCCCTCGG C			I GCTCTCTGAT		1216
TTCAGGCTTC C			A AACCCTCCCC		1266
	CCTTTTCTTT	CCTGCTCCC			1316
	GCTCTCCCT	GCTCCCCTC		CCTTTTCTTT	1366
	CTCCCCCTCC	CCTCCCTGT		CGCTTTTCCT	1416
	CCTCCCCCT	TGCTGCTCC		CATTTTCGGG	1466
	CCCCCTCCC	CCTCCCTCC			1516
	CTCCCCAGG				1566
	GAGACAGGGT		T ATCCCTGGCT		1616
			I CAGAAATCTG		1666
			A CCAGGACTGC		1716
			C TAATCCCTTT		1766
	TTGGCACCTT		G GACCCCCTCC		1816
TTCCCTTCCG G			r crgrrcccrc		1866
CCTCCCCCTC T			C CTTACCTCTC		1916
GCCCCGTTCC C		-			1916
			G GTTGTTTGGT		
AGCTCACCTT T	_				2016
TTTTTTTTT G			C CCCCTCCCCC	TCCGGCTTCC CCCCTCCCTT	2066
CCTCTGTGTG C					2116
TCTGCCTTTC C					2166
CTTTTCTAGA C					2216
CCTGACCCTG C					2266
CCTTTCTCCA G	CCTGTCACC	CCTCCTTCT	C TCCTCTCTGT		2316
TCCTGCTTCC T	.TTACCCCTT	CCCTCTCCCC	1 ACTUTUCTUC	CIGCCIGCIG	2366

GACTTCCTCT CCAGCCGCCC AGTTCCCTGC AGTCCTGGAC	
CTCTCTGTCC ATCACTTCCC CCTAGTTTCA CTTCCCTTTC	ACTCTCCCCT 2466
ATGTGTCTCT CTTCCTATCT ATCCCTTCCT TTCTGTCCCC	TCTCCTCTGT 2516
CCATCACCTC TCTCCTCCCT TCCCTTTCCT CTCTCTTCCA	TTTTCTTCCA 2566
CCTGCTTCTT TACCCTGCCT CTCCCATTGC CCTCTTACCT	
TCCATGTCCC CTCTCAATTC CCTGTCCCAT TGTGCTCCCT	
ATTTCCCTCT TTCTCCCTTA GCCTCTTCTT CCTCTTCTCT	
TTCCCTTTGC TTCTCCCTCC TCCTTTCCCC TTCCCCTATG	
TACTTGATCT TCTCTCCTCT CCACATACCC TTTTTCCTTT	
CTTTGTCCCC AGACCCTACA GTATCCTGTG CACAGGAAGT	
ATCAACAACA AGGAGGCAAG AAACAGAGCA AAATCCCAAA	
AAGGCTGGAT GAAAATAAGG CCAGGTTCTG AGGACAGCTG	GAATCTAGCC 2966
AAGTGGCTCC TATAACCCTA AGTACCAAGG GAGAAAGTGA	TGGTGAAGTT 3016
CTTGATCCTT GCTGCTTCTT TTACATATGT TGGCACATCT	TTCTCAAATG 3066
CAGGCCATGC TCCATGCTTG GCGCTTGCTC AGCGTGGTTA	AGTAATGGGA 3116
GAATCTGAAA ACTAGGGGCC AGTGGTTTGT TTTGGGGACA	AATTAGCACG 3166
TAGTGATATT TCCCCCTAAA AATTATAACA AACAGATTCA	
	GTTCTTTTTA 3266
	CTGCTTTCTT 3316
TTGCTAAAAT ATTCTTCTC ACATATTCAT ATTCTCCAG	3355
GT GTT CCT GGC CAT CAT TTA AGG AAG AAT GAA	
AGG ATG ATT TAT TTC TTC CAC GAC CCT AAT TTC	
ATA CCA GTG AAC CCT AAG GAA CAA ATG GAG TGT	
AAT GCT GAT GAA GAG GTT GCA ATG GAA GAG GAA	
GAG GAG GAG GAG GAA GAG GAA ATG GGA AAC	CCG GAT GGC 3564
TTC TCA CCT TAG	3576
GCATGCAGGT ACTGGCTTCA CTAACCAACC ATTCCTAACA	TATGCCTGTA 3626
GCTAAGAGCA TCTTTTTAAA AAATATTATT GGTAAACTAA	ACAATTGTTA 3676
TCTTTTTACA TTAATAAGTA TTAAATTAAT CCAGTATACA	GTTTTAAGAA 3726
CCCTAAGTTA AACAGAAGTC AATGATGTCT AGATGCCTGT	TCTTTAGATT 3776
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT	CGGGAGTAGA 3826
GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA	
	AAATAAGTGT 3926
TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT	
	ATGAAAATCT 4026
CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT	
	GATTTCTTAA 4126
AATGTTTTTT AAAAAAAATG CAAATCTCAT TTTTAAGAGA	
GTAACTGGGG GGCTTAGGGA ATCTGTAGGG TTGCGGTATA	
GTTCTGGTCT CTGAGAAGCA GTCAGAGAGA ATGGAAAACC	
CAGTAGGTTA GTGAGGTTGA TATGATCAGA TTATGGACAC	
ATAAATACTC TAACAGCTAA GGATCTCTGA GGGAAACACA	
ATTTTAGTTT CTCCTTGAGA AACAATGACA AGACATAAAA	
AGTCAGGAGT GTATTCTAAT AAGTGTTGCT TATCTCTTAT	
AGTTGCAAAG CCCAGAAGAA AGAAATGGAC AGCGGAAGAA	
TTTTTTCCCC TTCATTAATT TTCTAGTTTT TAGTAATCCA	
TTTTGTTCTA AAGTTCATTA TGCAAAGATG TCACCAACAG	ACTTCTGACT 4626
GCATGGTGAA CTTTCATATG ATACATAGGA TTACACTTGT	ACCTGTTAAA 4676
AATAAAAGTT TGACTTGCAT AC	4698

- (2) INFORMATION FOR SEQUENCE ID NO: 6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Leu Pro Tyr Leu Gly Trp Leu Val Phe

- INFORMATION FOR SEQUENCE ID NO: 7: (2)
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2419 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GGATCCAGGC	CCTGCCAGGA	AAAATATAAG	GGCCCTGCGT	GAGAACAGAG	50
GGGGTCATCC	ACTGCATGAG	AGTGGGGATG	TCACAGAGTC	CAGCCCACCC	100
TCCTGGTAGC	ACTGAGAAGC	CAGGGCTGTG	CTTGCGGTCT	GCACCCTGAG	150
GGCCCGTGGA	TTCCTCTTCC	TGGAGCTCCA	GGAACCAGGC	AGTGAGGCCT	200
TGGTCTGAGA	CAGTATCCTC	AGGTCACAGA	GCAGAGGATG	CACAGGGTGT	250
GCCAGCAGTG	AATGTTTGCC	CTGAATGCAC	ACCAAGGGCC	CCACCTGCCA	300
CAGGACACAT	AGGACTCCAC	AGAGTCTGGC	CTCACCTCCC	TACTGTCAGT	350
CCTGTAGAAT	CGACCTCTGC	TGGCCGGCTG	TACCCTGAGT	ACCCTCTCAC	400
TTCCTCCTTC	AGGTTTTCAG	GGGACAGGCC	AACCCAGAGG	ACAGGATTCC	450
CTGGAGGCCA	CAGAGGAGCA	CCAAGGAGAA	GATCTGTAAG	TAGGCCTTTG	500
TTAGAGTCTC	CAAGGTTCAG	TTCTCAGCTG	AGGCCTCTCA	CACACTCCCT	550
CTCTCCCCAG	GCCTGTGGGT	CTTCATTGCC	CAGCTCCTGC	CCACACTCCT	600
GCCTGCTGCC	CTGACGAGAG	TCATCATGTC	TCTTGAGCAG	AGGAGTCTGC	650
ACTGCAAGCC	TGAGGAAGCC	CTTGAGGCCC	AACAAGAGGC	CCTGGGCCTG	700
GTGTGTGTGC	AGGCTGCCAC	CTCCTCCTCC	TCTCCTCTGG	TCCTGGGCAC	750
CCTGGAGGAG	GTGCCCACTG	CTGGGTCAAC	AGATCCTCCC	CAGAGTCCTC	800
AGGGAGCCTC	CGCCTTTCCC	ACTACCATCA	ACTTCACTCG	ACAGAGGCAA	850
CCCAGTGAGG	GTTCCAGCAG	CCGTGAAGAG	GAGGGGCCAA	GCACCTCTTG	900
TATCCTGGAG	TCCTTGTTCC	GAGCAGTAAT	CACTAAGAAG	GTGGCTGATT	950
TGGTTGGTTT	TCTGCTCCTC	AAATATCGAG	CCAGGGAGCC	AGTCACAAAG	1000
GCAGAAATGC	TGGAGAGTGT	CATCAAAAAT	TACAAGCACT	GTTTTCCTGA	1050
GATCTTCGGC	AAAGCCTCTG	AGTCCTTGCA	GCTGGTCTTT	GGCATTGACG	1100
TGAAGGAAGC	AGACCCCACC	GGCCACTCCT	ATGTCCTTGT	CACCTGCCTA	1150
GGTCTCTCCT	ATGATGGCCT	GCTGGGTGAT	AATCAGATCA	TGCCCAAGAC	1200
AGGCTTCCTG	ATAATTGTCC	TGGTCATGAT	TGCAATGGAG	GGCGGCCATG	1250
CTCCTGAGGA	GGAAATCTGG	GAGGAGCTGA	GTGTGATGGA	GGTGTATGAT	1300
GGGAGGGAGC	ACAGTGCCTA	TGGGGAGCCC	AGGAAGCTGC	TCACCCAAGA	1350
TTTGGTGCAG	GAAAAGTACC	TGGAGTACGG	CAGGTGCCGG	ACAGTGATCC	1400

CGCACGCTAT	GAGTTCCTGT	GGGGTCCAAG	GGCCCTCGCT	GAAACCAGCT	1450
ATGTGAAAGT	CCTTGAGTAT	GTGATCAAGG	TCAGTGCAAG	AGTTCGCTTT	1500
TTCTTCCCAT	CCCTGCGTGA	AGCAGCTTTG	AGAGAGGAGG	AAGAGGGAGT	1550
CTGAGCATGA	GTTGCAGCCA	AGGCCAGTGG	GAGGGGGACT	GGGCCAGTGC	1600
ACCTTCCAGG	GCCGCGTCCA	GCAGCTTCCC	CTGCCTCGTG	TGACATGAGG	1650
CCCATTCTTC	ACTCTGAAGA	GAGCGGTCAG	TGTTCTCAGT	AGTAGGTTTC	1700
TGTTCTATTG	GGTGACTTGG	AGATTTATCT	TTGTTCTCTT	TTGGAATTGT	1750
TCAAATGTTT	TTTTTTAAGG	GATGGTTGAA	TGAACTTCAG	CATCCAAGTT	1800
TATGAATGAC	AGCAGTCACA	CAGTTCTGTG	TATATAGTTT	AAGGGTAAGA	1850
GTCTTGTGTT	TTATTCAGAT	TGGGAAATCC	ATTCTATTTT	GTGAATTGGG	1900
ATAATAACAG	CAGTGGAATA	AGTACTTAGA	AATGTGAAAA	ATGAGCAGTA	1950
AAATAGATGA	GATAAAGAAC	TAAAGAAATT	AAGAGATAGT	CAATTCTTGC	2000
CTTATACCTC	AGTCTATTCT	GTAAAATTTT	TAAAGATATA	TGCATACCTG	2050
GATTTCCTTG	GCTTCTTTGA	GAATGTAAGA	GAAATTAAAT	CTGAATAAAG	2100
AATTCTTCCT	GTTCACTGGC	TCTTTTCTTC	TCCATGCACT	GAGCATCTGC	2150
TTTTTGGAAG	GCCCTGGGTT	AGTAGTGGAG	ATGCTAAGGT	AAGCCAGACT	2200
CATACCCACC	CATAGGGTCG	TAGAGTCTAG	GAGCTGCAGT	CACGTAATCG	2250
AGGTGGCAAG	ATGTCCTCTA	AAGATGTAGG	GAAAAGTGAG	AGAGGGGTGA	2300
GGGTGTGGGG	CTCCGGGTGA	GAGTGGTGGA	GTGTCAATGC	CCTGAGCTGG	2350
GGCATTTTGG	GCTTTGGGAA	ACTGCAGTTC	CTTCTGGGGG	AGCTGATTGT	2400
AATGATCTTG	GGTGGATCC				2419

- (2) INFORMATION FOR SEQUENCE ID NO: 8:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5674 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: single

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: genomic DNA
 - (ix) FEATURE:
 - (A) NAME/KEY: MAGE-1 gene
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

CCCGGGGCAC	CACTGGCATC	CCTCCCCCTA	CCACCCCAA	TCCCTCCCTT	50
TACGCCACCC	ATCCAAACAT	CTTCACGCTC	ACCCCCAGCC	CAAGCCAGGC	100
AGAATCCGGT	TCCACCCCTG	CTCTCAACCC	AGGGAAGCCC	AGGTGCCCAG	150
ATGTGACGCC	ACTGACTTGA	GCATTAGTGG	TTAGAGAGAA	GCGAGGTTTT	200
CGGTCTGAGG	GGCGGCTTGA	GATCGGTGGA	GGGAAGCGGG	CCCAGCTCTG	250
TAAGGAGGCA	AGGTGACATG	CTGAGGGAGG	ACTGAGGACC	CACTTACCCC	300
AGATAGAGGA	CCCCAAATAA	TCCCTTCATG	CCAGTCCTGG	ACCATCTGGT	350
GGTGGACTTC	TCAGGCTGGG	CCACCCCAG	CCCCCTTGCT	GCTTAAACCA	400
CTGGGGACTC	GAAGTCAGAG	CTCCGTGTGA	TCAGGGAAGG	GCTGCTTAGG	450
AGAGGGCAGC	GTCCAGGCTC	TGCCAGACAT	CATGCTCAGG	ATTCTCAAGG	500
AGGGCTGAGG	GTCCCTAAGA	CCCCACTCCC	GTGACCCAAC	CCCCACTCCA	550
ATGCTCACTC	CCGTGACCCA	ACCCCCTCTT	CATTGTCATT	CCAACCCCCA	600
CCCCACATCC	CCCACCCCAT	CCCTCAACCC	TGATGCCCAT	CCGCCCAGCC	650
ATTCCACCCT	CACCCCCACC	CCCACCCCCA	CGCCCACTCC	CACCCCCACC	700
CAGGCAGGAT	CCGGTTCCCG	CCAGGAAACA	TCCGGGTGCC	CGGATGTGAC	750
GCCACTGACT	TGCGCATTGT	GGGGCAGAGA	GAAGCGAGGT	TTCCATTCTG	800

AGGGACGGCG	TAGAGTTCGG	CCGAAGGAAC	CTGACCCAGG	CTCTGTGAGG	850
	AGAGGCTGAG				900
GAGAGCCCCA	AATATTCCAG	CCCCGCCCTT	GCTGCCAGCC	CTGGCCCACC	950
CGCGGGAAGA	CGTCTCAGCC	TGGGCTGCCC	CCAGACCCCT	GCTCCAAAAG	1000
CCTTGAGAGA	CACCAGGTTC	TTCTCCCCAA	GCTCTGGAAT	CAGAGGTTGC	1050
TGTGACCAGG	GCAGGACTGG	TTAGGAGAGG	GCAGGGCACA	GGCTCTGCCA	1100
GGCATCAAGA	TCAGCACCCA	AGAGGGAGGG	CTGTGGGCCC	CCAAGACTGC	1150
ACTCCAATCC	CCACTCCCAC	CCCATTCGCA	TTCCCATTCC	CCACCCAACC	1200
CCCATCTCCT	CAGCTACACC	TCCACCCCCA	TCCCTACTCC	TACTCCGTCA	1250
CCTGACCACC	ACCCTCCAGC	CCCAGCACCA	GCCCCAACCC	TTCTGCCACC	1300
TCACCCTCAC	TGCCCCCAAC	CCCACCCTCA	TCTCTCTCAT	GTGCCCCACT	1350
CCCATCGCCT	CCCCCATTCT	GGCAGAATCC	GGTTTGCCCC	TGCTCTCAAC	1400
CCAGGGAAGC	CCTGGTAGGC	CCGATGTGAA	ACCACTGACT	TGAACCTCAC	1450
AGATCTGAGA	GAAGCCAGGT	TCATTTAATG	GTTCTGAGGG	GCGGCTTGAG	1500
ATCCACTGAG	GGGAGTGGTT	TTAGGCTCTG	TGAGGAGGCA	AGGTGAGATG	1550
	ACTGAGGAGG				1600
	ACCCCTGCTG				1650
	GACCACCCCC				1700
	AGTCATAGCT				1750
	AGGCATCAAG				1800
	GGAACTGAGG				1850
	CCACTCACAT				1900
	ATCCCTGCTG				1950
	GATCTTGACG				2000
	GGCCTCAGGG				2050
	AGAGGACCCA				2100
	CCACTTCTGG				2150
	GTGGGACCCA				2200
	AGGGGACCTT				2250
	GGGCACGGTG				2300
	GGACAGAGCT				2350
	GTTCCAGGAT				2400
	ATATCCCCGG				2450
	TTAGTAGCTC				2500
	ACTTGTACCA				2550
ATGGGGTCTT	GGGGTAAAGG	GGGGATGTCT	ACTCATGTCA	GGGAATTGGG	2600
	GCACAGGCGC				2650
AGGCTATTGG	AATCCACACC	CCAGAACCAA	AGGGGTCAGC	CCTGGACACC	2700
	TGTGGCTTCT				2750
	CATTCTCAGA				2800
	AGACAGAGCG				2850
	GAGGACTGAG				2900
	ATCAGCCCTG				2950
	CCGAGGTCCT				3000
	CTTGGTCTGA				3050
	CTGCCAGGAG				3100
	TAATTCCAAT				3150
	GCACGTGTGG				3200
	GGATGTGAAC				3250
	CAGGCCCTGC				3300
	CATCCACTGC				3350
	GTAGCACTGA				3400

CTGAGGGCCC GTGGATTCCT CTTCCTGGAG CTCCAGGAAC	CAGGCAGTGA 345	50
GGCCTTGGTC TGAGACAGTA TCCTCAGGTC ACAGAGCAGA	GGATGCACAG 350	00
GGTGTGCCAG CAGTGAATGT TTGCCCTGAA TGCACACCAA	GGGCCCCACC 355	50
TGCCACAGGA CACATAGGAC TCCACAGAGT CTGGCCTCAC		0 (
TCAGTCCTGT AGAATCGACC TCTGCTGGCC GGCTGTACCC	TGAGTACCCT 365	50
CTCACTTCCT CCTTCAGGTT TTCAGGGGAC AGGCCAACCC	AGAGGACAGG 370	0 (
ATTCCCTGGA GGCCACAGAG GAGCACCAAG GAGAAGATCT	GTAAGTAGGC 375	50
CTTTGTTAGA GTCTCCAAGG TTCAGTTCTC AGCTGAGGCC	TCTCACACAC 380	0 (
CTTTGTTAGA GTCTCCAAGG TTCAGTTCTC AGCTGAGGCC TCCCTCTCTC CCCAGGCCTG TGGGTCTTCA TTGCCCAGCT CTCCTGCCTG CTGCCCTGAC GAGAGTCATC	CCTGCCCACA 385	50
CTCCTGCCTG CTGCCCTGAC GAGAGTCATC	388	30
ATG TCT CTT GAG CAG AGG AGT CTG CAC TGC AAG	CCT GAG GAA 392	22
GCC CTT GAG GCC CAA CAA GAG GCC CTG GGC CTG	GTG TGT GTG 396	54
CAG GCT GCC ACC TCC TCC TCT CCT CTG GTC	CTG GGC ACC 400)6
CTG GAG GAG GTG CCC ACT GCT GGG TCA ACA GAT	CCT CCC CAG 404	18
AGT CCT CAG GGA GCC TCC GCC TTT CCC ACT ACC		}0
ACT CGA CAG AGG CAA CCC AGT GAG GGT TCC AGC	AGC CGT GAA 413	32
GAG GAG GGG CCA AGC ACC TCT TGT ATC CTG GAG	TCC TTG TTC 418	34
CGA GCA GTA ATC ACT AAG AAG GTG GCT GAT TTG	GTT GGT TTT 421	١6
CTG CTC CTC AAA TAT CGA GCC AGG GAG CCA GTC	ACA AAG GCA 425	58
GAA ATG CTG GAG AGT GTC ATC AAA AAT TAC AAG	CAC TGT TTT 430	0 (
CCT GAG ATC TTC GGC AAA GCC TCT GAG TCC TTG	CAG CTG GTC 434	12
TTT GGC ATT GAC GTG AAG GAA GCA GAC CCC ACC	GGC CAC TCC 438	}4
TAT GTC CTT GTC ACC TGC CTA GGT CTC TCC TAT	GAT GGC CTG 442	26
CTG GGT GAT AAT CAG ATC ATG CCC AAG ACA GGC	TTC CTG ATA 446	8
ATT GTC CTG GTC ATG ATT GCA ATG GAG GGC GGC	CAT GCT CCT 451	١0
GAG GAG GAA ATC TGG GAG GAG CTG AGT GTG ATG	GAG GTG TAT 455	52
GAT GGG AGG GAG CAC AGT GCC TAT GGG GAG CCC	AGG AAG CTG 459	} 4
CTC ACC CAA GAT TTG GTG CAG GAA AAG TAC CTG	GAG TAC GGC 463	16
AGG TGC CGG ACA GTG ATC CCG CAC GCT ATG AGT	TCC TGT GGG 468	
CTC ACC CAA GAT TTG GTG CAG GAA AAG TAC CTG AGG TGC CGG ACA GTG ATC CCG CAC GCT ATG AGT GTC CAA GGG CCC TCG CTG AAA CCA GCT ATG TGA AAGTCCTTGA GTATGTGATC AAGGTCAGTG CAAGAGTTC	. 471	
GCTTTTTCTT CCCATCCCTG CGTGAAGCAG CTTTGAGAGA	GGAGGAAGAG 480	
GGAGTCTGAG CATGAGTTGC AGCCAAGGCC AGTGGGAGGG	GGACTGGGCC 485	
AGTGCACCTT CCAGGGCCGC GTCCAGCAGC TTCCCCTGCC		
TGAGGCCCAT TCTTCACTCT GAAGAGAGCG GTCAGTGTTC	TCAGTAGTAG 495	
GTTTCTGTTC TATTGGGTGA CTTGGAGATT TATCTTTGTT	CTCTTTTGGA 500	
ATTGTTCAAA TGTTTTTTT TAAGGGATGG TTGAATGAAC		
AAGTTTATGA ATGACAGCAG TCACACAGTT CTGTGTATAT		
TAAGAGTCTT GTGTTTTATT CAGATTGGGA AATCCATTCT		
TTGGGATAAT AACAGCAGTG GAATAAGTAC TTAGAAATGT		
CAGTAAAATA GATGAGATAA AGAACTAAAG AAATTAAGAG		
CTTGCCTTAT ACCTCAGTCT ATTCTGTAAA ATTTTTAAAG		
ACCTGGATTT CCTTGGCTTC TTTGAGAATG TAAGAGAAAT		
	GCACTGAGCA 540	
TCTGCTTTTT GGAAGGCCCT GGGTTAGTAG TGGAGATGCT		
AGACTCATAC CCACCCATAG GGTCGTAGAG TCTAGGAGCT		
AATCGAGGTG GCAAGATGTC CTCTAAAGAT GTAGGGAAAA		
GGTGAGGGTG TGGGGCTCCG GGTGAGAGTG GTGGAGTGTC		
GCTGGGGCAT TTTGGGCTTT GGGAAACTGC AGTTCCTTCT		
ATTGTAATGA TCTTGGGTGG ATCC	567	4

- (2) INFORMATION FOR SEQUENCE ID NO: 9:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4157 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
 - (ix) FEATURE:
 - (A) NAME/KEY: MAGE-2 gene
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

CCCATCCAGA	TCCCCATCCG	GGCAGAATCC	GGTTCCACCC	TTGCCGTGAA	50
CCCAGGGAAG	TCACGGGCCC	GGATGTGACG	CCACTGACTT	GCACATTGGA	100
GGTCAGAGGA	CAGCGAGATT	CTCGCCCTGA	GCAACGGCCT	GACGTCGGCG	150
GAGGGAAGCA	GGCGCAGGCT	CCGTGAGGAG	GCAAGGTAAG	ACGCCGAGGG	200
AGGACTGAGG	CGGGCCTCAC	CCCAGACAGA	GGGCCCCAA	TTAATCCAGC	250
GCTGCCTCTG	CTGCCGGGCC	TGGACCACCC	TGCAGGGGAA	GACTTCTCAG	300
GCTCAGTCGC	CACCACCTCA	CCCCGCCACC	CCCCGCCGCT	TTAACCGCAG	350
GGAACTCTGG	CGTAAGAGCT	TTGTGTGACC	AGGGCAGGGC	TGGTTAGAAG	400
TGCTCAGGGC	CCAGACTCAG	CCAGGAATCA	AGGTCAGGAC	CCCAAGAGGG	450
GACTGAGGGC	AACCCACCCC	CTACCCTCAC	TACCAATCCC	ATCCCCCAAC	500
ACCAACCCCA	CCCCCATCCC	TCAAACACCA	ACCCCACCCC	CAAACCCCAT	550
TCCCATCTCC	TCCCCCACCA	CCATCCTGGC	AGAATCCGGC	TTTGCCCCTG	600
CAATCAACCC	ACGGAAGCTC	CGGGAATGGC	GGCCAAGCAC	GCGGATCCTG	650
ACGTTCACAT	GTACGGCTAA	GGGAGGGAAG	GGGTTGGGTC	TCGTGAGTAT	700
GGCCTTTGGG	ATGCAGAGGA	AGGGCCCAGG	CCTCCTGGAA	GACAGTGGAG	750
TCCTTAGGGG	ACCCAGCATG	CCAGGACAGG	GGGCCCACTG	TACCCCTGTC	800
TCAAACTGAG	CCACCTTTTC	ATTCAGCCGA	GGGAATCCTA	GGGATGCAGA	850
CCCACTTCAG	GGGGTTGGGG	CCCAGCCTGC	GAGGAGTCAA	GGGGAGGAAG	900
	ACTGAGGGGA				950
	CCTGGGCACA				1000
CTTCAGGGTG	ACAGAGAGTT	GAGGGCTGTG	GTCTGAGGGC	TGGGACTTCA	1050
	GGGAGGAATC				1100
	ACTCCCCATA				1150
AGTCTGGAAG	TAAATTGTTC	TTAGCTCTGG	GGGAACCTGA	TCAGGGATGG	1200
	CAATCTCATT				1250
	AGGTGTTGGT				1300
	TGAGAAAGGG				1350
	CCATCATAAC				1400
	CGTGGGGTAA				1450
	GGAGTTGATG				1500
	CTCTGGTCGA				1550
	AGAGCCTGAG				1600
	GGCCCCATAG				1650
	CAGGGCTGTC				1700
	GAAGGGGAGG				1750
	GGTCTCAGGC				1800
	CCAGGACACC				1850
	GAGGACCTGG				1900
TCTCCTTCTG	TACCATATCA	GGGATGTGAG	TTCTTGACAT	GAGAGATTCT	1950

											AGGTGAG		2000
CCTG	AGTO	GAG (CACA	GAGG	GG A	CCCT	CCAC	CA	AGTA(SAGT	GGGGACC'	ГCА	2050
CGGA	GTC	rgg (CCAA	CCCT	GC TO	GAGA	CTTC	r GG	GAAT	CCGT	GGCTGTG	CTT	2100
GCAG	TCTC	GA (CACTO	3AAG	GC CC	GTG	САТТО	CTC	CTCC	CAGG	AATCAGG	AGC	2150
											CTCAGGT		2200
											GCCTGGA		2250
											AGAGGGC		
													2300
											TGCTGGC		2350
											TGAGGGG		2400
											AGGAGAA		2450
											AGTTCTC		2500
TAAG	GCC1	CA (CACA	CGCT	CC TI	CTC:	rccc	CAG	GCCT(FTGG	GTCTTCA'	ΓTG	2550
CCCA	GCT	CCT (GCCC	GCAC'	rc ci	rgcc:	rgct(G CC	CTGA	CCAG	AGTCATC		2597
ATG	CCT	CTT	GAG	CAG	AGG	AGT	CAG	CAC	TGC	AAG	CCT GAA	GAA	2639
GGC	CTT	GAG	GCC	CGA	GGA	GAG	GCC	CTG	GGC	CTG	GTG GGT	GCG	2681
					GAG								2723
											CCT GCT		2765
					CCC							AGC	2807
											CAA TCC		2849
GAG											AGA ATG		2891
	GAC		GAG								AGT AGG		2933
ATG			TTG								TAT CGA		2975
AGG	GAG										AGT GTC		3017
AGA	AAT	TGC	CAG		TTC	TTT					AGC AAA		3059
TCC	GAG	TAC	TTG	CAG	CTG	GTC	TTT	GGC	ATC	GAG	GTG GTG	GAA	3101
GTG	GTC	CCC	ATC	AGC	CAC	TTG	TAC	ATC	CTT	GTC	ACC TGC	CTG	3143
GGC	CTC	TCC	TAC	GAT	GGC	CTG	CTG	GGC	GAC	AAT	CAG GTC	ATG	3185
CCC	AAG	ACA	GGC	CTC	CTG	ATA	ATC	GTC	CTG	GCC	ATA ATC	GCA	3227
			GAC								TGG GAG		3269
CTG			TTG		GTG						GAC AGT		3311
			CCC								CTG GTG		3353
GAA			CTG								AGT GAT		3395
GCA			GAG	TTC	CTG						CTC ATT		3437
ACC											AAG ATC		3479
							CCA	CCC	CIG	CAT	GAA CGG	GCI	3521
					GAG								3542
											CTGGGCC		3592
											TGTGATA'		3642
											TAGCAGT		3692
TTTC	TGT	CT (GTTG	SATG	AC TI	TGAC	GATT	TA T	CTTTC	TTT	CCTGTTG	GAA	3742
TTGT	TCA	TAA	GTTC	CTTT	ra ac	CAAAC	rggt1	r GG	ATGA	ACTT	CAGCATC	CAA	3792
GTTT	'ATG	TAA	GACA	TAG:	C A	CACA	ragto	G CT	STTTA	TAT	AGTTTAG	GGG	3842
											ATTTTGT		3892
											ATTGTGA		3942
											AGTTAAT'		3992
											TGTATGT'		4042
											TTCTTCC'		4092
											TGTGGAA		4142
					AC CA	TITCA	4C T CF	s GCA	41 C T (3010	TGTGGAA	JUC	4142
CCTG	iGTA(TA (GTGG	ż									415/

- (2) INFORMATION FOR SEQUENCE ID NO: 10:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 662 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: genomic DNA
 - (ix) FEATURE:
 - (A) NAME/KEY: MAGE-21 gene
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

GGATCCCCAT	GGATCCAGGA	AGAATCCAGT	TCCACCCCTG	CTGTGAACCC	50
AGGGAAGTCA	CGGGGCCGGA	TGTGACGCCA	CTGACTTGCG	CGTTGGAGGT	100
CAGAGAACAG	CGAGATTCTC	GCCCTGAGCA	ACGGCCTGAC	GTCGGCGGAG	150
GGAAGCAGGC	GCAGGCTCCG	TGAGGAGGCA	AGGTAAGATG	CCGAGGGAGG	200
ACTGAGGCGG	GCCTCACCCC	AGACAGAGGG	CCCCCAATAA	TCCAGCGCTG	250
CCTCTGCTGC	CAGGCCTGGA	CCACCCTGCA	GGGGAAGACT	TCTCAGGCTC	300
AGTCGCCACC	ACCTCACCCC	GCCACCCCC	GCCGCTTTAA	CCGCAGGGAA	350
CTCTGGTGTA	AGAGCTTTGT	GTGACCAGGG	CAGGGCTGGT	TAGAAGTGCT	400
CAGGGCCCAG	ACTCAGCCAG	GAATCAAGGT	CAGGACCCCA	AGAGGGGACT	450
GAGGGTAACC	CCCCCGCACC	CCCACCACCA	TTCCCATCCC	CCAACACCAA	500
CCCCACCCC	ATCCCCCAAC	ACCAAACCCA	CCACCATCGC	TCAAACATCA	550
ACGGCACCCC	CAAACCCCGA	TTCCCATCCC	CACCCATCCT	GGCAGAATCG	600
GAGCTTTGCC	CCTGCAATCA	ACCCACGGAA	GCTCCGGGAA	TGGCGGCCAA	650
GCACGCGGAT	CC				662

- (2) INFORMATION FOR SEQUENCE ID NO: 11:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1640 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA to mRNA
 - (ix) FEATURE:
 - (A) NAME/KEY: cDNA MAGE-3
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

GCCGCGAGGG AAGCCGGCCC AGGCTCGGTG AGGAGGCAA	AG GTTCTGAGGG 50
GACAGGCTGA CCTGGAGGAC CAGAGGCCCC CGGAGGAGC	CA CTGAAGGAGA 100
AGATCTGCCA GTGGGTCTCC ATTGCCCAGC TCCTGCCCA	AC ACTCCCGCCT 150
GTTGCCCTGA CCAGAGTCAT C	171
ATG CCT CTT GAG CAG AGG AGT CAG CAC TGC AA	AG CCT GAA GAA 213
GGC CTT GAG GCC CGA GGA GAG GCC CTG GGC CT	rg gtg ggt gcg 255
CAG GCT CCT GCT ACT GAG GAG CAG GAG GCT GC	CC TCC TCT 297
TCT ACT CTA GTT GAA GTC ACC CTG GGG GAG GT	IG CCT GCT GCC 339
GAG TCA CCA GAT CCT CCC CAG AGT CCT CAG GG	GA GCC TCC AGC 381
CTC CCC ACT ACC ATG AAC TAC CCT CTC TGG AG	GC CAA TCC TAT 423

GAG GAC TCC AGC AAC CAA GAA GAG GAG GGG CCA AGC ACC	TTC 465
CCT GAC CTG GAG TCC GAG TTC CAA GCA GCA CTC AGT AGG	AAG 507
GTG GCC GAG TTG GTT CAT TTT CTG CTC CTC AAG TAT CGA	GCC 549
AGG GAG CCG GTC ACA AAG GCA GAA ATG CTG GGG AGT GTC	GTC 591
GGA AAT TGG CAG TAT TTC TTT CCT GTG ATC TTC AGC AAA	GCT 633
TCC AGT TCC TTG CAG CTG GTC TTT GGC ATC GAG CTG ATG	GAA 675
GTG GAC CCC ATC GGC CAC TTG TAC ATC TTT GCC ACC TGC	CTG 717
GGC CTC TCC TAC GAT GGC CTG CTG GGT GAC AAT CAG ATC	ATG 759
CCC AAG GCA GGC CTC CTG ATA ATC GTC CTG GCC ATA ATC	GCA 801
AGA GAG GGC GAC TGT GCC CCT GAG GAG AAA ATC TGG GAG	GAG 843
CTG AGT GTG TTA GAG GTG TTT GAG GGG AGG GAA GAC AGT	ATG 885
TTG GGG GAT CCC AAG AAG CTG CTC ACC CAA CAT TTC GTG	CAG 927
GAA AAC TAC CTG GAG TAC CGG CAG GTC CCC GGC AGT GAT	CCT 969
GCA TGT TAT GAA TTC CTG TGG GGT CCA AGG GCC CTC GTT	GAA 1011
ACC AGC TAT GTG AAA GTC CTG CAC CAT ATG GTA AAG ATC	AGT 1053
GGA GGA CCT CAC ATT TCC TAC CCA CCC CTG CAT GAG TGG	GTT 1095
TTG AGA GAG GGG GAA GAG TGA	1116
GTCTGAGCAC GAGTTGCAGC CAGGGCCAGT GGGAGGGGGT CTGGGCCA	AGT 1166
GCACCTTCCG GGGCCGCATC CCTTAGTTTC CACTGCCTCC TGTGACGT	TGA 1216
GGCCCATTCT TCACTCTTTG AAGCGAGCAG TCAGCATTCT TAGTAGTG	GG 1266
TTTCTGTTCT GTTGGATGAC TTTGAGATTA TTCTTTGTTT CCTGTTGG	GAG 1316
TTGTTCAAAT GTTCCTTTTA ACGGATGGTT GAATGAGCGT CAGCATCO	CAG 1366
GTTTATGAAT GACAGTAGTC ACACATAGTG CTGTTTATAT AGTTTAGG	GAG 1416
TAAGAGTCTT GttTTTTACT CAAATTGGGA AATCCATTCC ATTTTGTG	
TTGTGACATA ATAATAGCAG TGGTAAAAGT ATTTGCTTAA AATTGTGA	
GAATTAGCAA TAACATACAT GAGATAACTC AAGAAATCAA AAGATAGT	
ATTCTTGCCT TGTACCTCAA TCTATTCTGT AAAATTAAAC AAATATGC	
ACCAGGATTT CCTTGACTTC TTTG	1640

- (2) INFORMATION FOR SEQUENCE ID NO: 12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 943 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
 - (ix) FEATURE:
 - (A) NAME/KEY: MAGE-31 gene
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

GGATCCTCCA	CCCCAGTAGA	GTGGGGACCT	CACAGAGTCT	GGCCAACCCT	50
CCTGACAGTT	CTGGGAATCC	GTGGCTGCGT	TTGCTGTCTG	CACATTGGGG	100
GCCCGTGGAT	TCCTCTCCCA	GGAATCAGGA	GCTCCAGGAA	CAAGGCAGTG	150
AGGACTTGGT	CTGAGGCAGT	GTCCTCAGGT	CACAGAGTAG	AGGGGGCTCA	200
		TTTGCCTTGG			250
CTGCCCCAGA	ACACATGGAC	TCCAGAGCGC	CTGGCCTCAC	CCTCAATACT	300
TTCAGTCCTG	CAGCCTCAGC	ATGCGCTGGC	CGGATGTACC	CTGAGGTGCC	350
CTCTCACTTC	CTCCTTCAGG	TTCTGAGGGG	ACAGGCTGAC	CTGGAGGACC	400

AGAGGCCCCC GGAGGAGCAC TGAA	GGAGAA GATCTGTAAC	FIAAGCCTTTG	450
TTAGAGCCTC CAAGGTTCCA TTCA	GTACTC AGCTGAGGTC	CTCTCACATGC	500
TCCCTCTCTC CCCAGGCCAG TGGG	TCTCCA TTGCCCAGCT	CCTGCCCACA	550
CTCCCGCCTG TTGCCCTGAC CAGA	GTCATC		580
ATG CCT CTT GAG CAG AGG AG	T CAG CAC TGC AAG	CCT GAA GAA	622
GGC CTT GAG GCC CGA GGA GA	g GCC CTG GGC CTG	GTG GGT GCG	664
CAG GCT CCT GCT ACT GAG GA	G CAG GAG GCT GCC	TCC TCC TCT	706
TCT AGT GTA GTT GAA GTC AC	CC CTG GGG GAG GTG	CCT GCT GCC	748
GAG TCA CCA GAT CCT CCC CA	G AGT CCT CAG GGA	A GCC TCC AGC	790
CTC CCC ACT ACC ATG AAC TA	C CCT CTC TGG AGO	CAA TCC TAT	832
GAG GAC TCC AGC AAC CAA GA	A GAG GAG GGG CCA	A AGC ACC TTC	874
CCT GAC CTG GAG TCT GAG TT	C CAA GCA GCA CTO	AGT AGG AAG	916
GTG GCC AAG TTG GTT CAT TT	T CTG CTC		943

- (2) INFORMATION FOR SEQUENCE ID NO: 13:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2531 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: genomic DNA
 - (ix) FEATURE:
 - (A) NAME/KEY: MAGE-4 gene
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

GGATCCAGGC CCTGCCTGGA GAAATGTGAG GGCCCTGAGT	GAACACAGTG	50
GGGATCATCC ACTCCATGAG AGTGGGGACC TCACAGAGTC	CAGCCTACCC	100
		150
	* *	
GGCCCATGGA TTCCTCTCT AGGAGCTCCA GGAACAAGGC	AGTGAGGCCT	200
TGGTCTGAGA CAGTGTCCTC AGGTTACAGA GCAGAGGATG	CACAGGCTGT	250
GCCAGCAGTG AATGTTTGCC CTGAATGCAC ACCAAGGGCC	CCACCTGCCA	300
CAAGACACAT AGGACTCCAA AGAGTCTGGC CTCACCTCCC	TACCATCAAT	350
CCTGCAGAAT CGACCTCTGC TGGCCGGCTA TACCCTGAGG	TGCTCTCA	400
CTTCCTCCTT CAGGTTCTGA GCAGACAGGC CAACCGGAGA	CAGGATTCCC	450
TGGAGGCCAC AGAGGAGCAC CAAGGAGAAG ATCTGTAAGT	AAGCCTTTGT	500
TAGAGCCTCT AAGATTTGGT TCTCAGCTGA GGTCTCTCAC	ATGCTCCCTC	550
TCTCCGTAGG CCTGTGGGTC CCCATTGCCC AGCTTTTGCC	TGCACTCTTG	600
CCTGCTGCCC TGACCAGAGT CATC		624
ATG TCT TCT GAG CAG AAG AGT CAG CAC TGC AAG	CCT GAG GAA	666
GGC GTT GAG GCC CAA GAA GAG GCC CTG GGC CTG	GTG GGT GCA	708
CAG GCT CCT ACT ACT GAG GAG CAG GAG GCT GCT	GTC TCC TCC	750
TCC TCT CCT CTG GTC CCT GGC ACC CTG GAG GAA	GTG CCT GCT	792
GCT GAG TCA GCA GGT CCT CCC CAG AGT CCT CAG	GGA GCC TCT	834
GCC TTA CCC ACT ACC ATC AGC TTC ACT TGC TGG	AGG CAA CCC	876
AAT GAG GGT TCC AGC AGC CAA GAA GAG GAG GGG	CCA AGC ACC	918
TCG CCT GAC GCA GAG TCC TTG TTC CGA GAA GCA	CTC AGT AAC	960
AAG GTG GAT GAG TTG GCT CAT TTT CTG CTC CGC	AAG TAT CGA	1002
GCC AAG GAG CTG GTC ACA AAG GCA GAA ATG CTG	GAG AGA GTC	1044

	1128
	1120
	L170
	1212
	L254
GCA ATG GAG GGC GAC AGC GCC TCT GAG GAG GAA ATC TGG GAG 1	L296
	L338
	L380
	L422
	L464
	L506
	L548
	L578
	L628
	L678
	L728
	L778
	L828
	L878
·	L928
	L978
	2028
	2078
	2128
ACTGGCTCAT TTCTTCTCTA TGCACTGAGC ATCTGCTCTG TGGAAGGCCC 2	2178
AGGATTAGTA GTGGAGATAC TAGGGTAAGC CAGACACAC CCTACCGATA 2	2228
	2278
CCTCTAAGAT GTAGGGGAAA AGTAACGAGT GTGGGTATGG GGCTCCAGGT 2	2328
GAGAGTGGTC GGGTGTAAAT TCCCTGTGTG GGGCCTTTTG GGCTTTGGGA 2	2378
AACTGCATTT TCTTCTGAGG GATCTGATTC TAATGAAGCT TGGTGGGTCC 2	2428
AGGGCCAGAT TCTCAGAGGG AGAGGGAAAA GCCCAGATTG GAAAAGTTGC 2	2478
TCTGAGCAGT TCCTTTGTGA CAATGGATGA ACAGAGAGGA GCCTCTACCT 2	2528
GGG 2	2531

(2) INFORMATION FOR SEQUENCE ID NO: 14:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2531 base pairs
 - (B) TYPE: nucleic acid

 - (C) STRANDEDNESS:single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: genomic DNA
- (ix) FEATURE:
 - (A) NAME/KEY: MAGE-41 gene
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GGATCCAGGC	CCTGCCTGGA	GAAATGTGAG	GGCCCTGAGT	GAACACAGTG	50
GGGATCATCC	ACTCCATGAG	AGTGGGGACC	TCACAGAGTC	CAGCCTACCC	100
TCTTGATGGC	ACTGAGGGAC	CGGGGCTGTG	CTTACAGTCT	GCACCCTAAG	150

GGCCCATGGA TTCCTCTCT AGGAGCTCCA GGAACAAGGC	C AGTGAGGCCT 200
TGGTCTGAGA CAGTGTCCTC AGGTTACAGA GCAGAGGATO	G CACAGGCTGT 250
GCCAGCAGTG AATGTTTGCC CTGAATGCAC ACCAAGGGCC	C CCACCTGCCA 300
CAAGACACAT AGGACTCCAA AGAGTCTGGC CTCACCTCCC	C TACCATCAAT 350
CCTGCAGAAT CGACCTCTGC TGGCCGGCTA TACCCTGAGO	G TGCTCTCTCA 400
CTTCCTCCTT CAGGTTCTGA GCAGACAGGC CAACCGGAGA	A CAGGATTCCC 450
TGGAGGCCAC AGAGGAGCAC CAAGGAGAAG ATCTGTAAGT	AAGCCTTTGT 500
TAGAGCCTCT AAGATTTGGT TCTCAGCTGA GGTCTCTCAC	ATGCTCCCTC 550
TCTCCGTAGG CCTGTGGGTC CCCATTGCCC AGCTTTTGCC	TGCACTCTTG 600
CCTGCTGCCC TGAGCAGAGT CATC	624
GGCCCATGGA TTCCTCTCT AGGAGCTCCA GGAACAAGGC TGGTCTGAGA CAGTGTCCTC AGGTTACAGA GCAGAGGATC GCCAGCAGTG AATGTTTGCC CTGAATGCAC ACCAAGGGCC CAAGACACAT AGGACTCCAA AGAGTCTGGC CTCACCTCCC CCTGCAGAAT CGACCTCTGC TGGCCGGCTA TACCCTGAGC CTTCCTCCTT CAGGTTCTGA GCAGACAGGC CAACCGGAGA TGGAGGCCAC AGAGGAGCAC CAAGGAGAAG ATCTGTAAGT TAGAGCCTCT AAGATTTGGT TCTCAGCTGA GGTCTCTCAC CCTGCTGCCC TGAGCAGAGT CATC ATG TCT TCT GAG CAG AAG AGT CAG CAC TGC AAC GGC GTT GAG GCC CAA GAA GAG GCC CTG GGC CTC CAG GCT CCT ACT ACT GAG GAG CAC CTG GAG GAA GCT GAG TCA GCA GGT CCT CCC CAG AGT CCT CAC GCC TTA CCC ACT ACC ATC AGC TTC ACT TGC TGC AAT GAG GGT TCC AGC AGC CAA GAA GAG GAG GAG GCC CTG GAC GCA GAG CAC CTG GGC TCG CCT GAC ACT ACC ATC AGC TTC ACT TGC TGC AAT GAG GGT TCC AGC AGC CAA GAA GAG GAG GGC TCG CCT GAC GCA GAG TCC TTG TTC CGA GAA GCC AAG GTG GAT GAG TTG GCT CAT TTT CTG CTC CGC AAG GTG GAT GAG TTG GCT CAT TTT CTG CTC CGC	G CCT GAG GAA 666
GGC GTT GAG GCC CAA GAA GAG GCC CTG GGC CTC	G GTG GGT GCG 708
CAG GCT CCT ACT ACT GAG GAG CAG GAG GCT GCT	GTC TCC TCC 750
TCC TCT CCT CTG GTC CCT GGC ACC CTG GAG GAF	A GTG CCT GCT 792
GCT GAG TCA GCA GGT CCT CCC CAG AGT CCT CAC	GGA GCC TCT 834
GCC TTA CCC ACT ACC ATC AGC TTC ACT TGC TGC	G AGG CAA CCC 876
AAT GAG GGT TCC AGC AGC CAA GAA GAG GAG GGC	G CCA AGC ACC 918
TCG CCT GAC GCA GAG TCC TTG TTC CGA GAA GCA	A CTC AGT AAC 960
AAG GTG GAT GAG TTG GCT CAT TTT CTG CTC CGC	C AAG TAT CGA 1002
GCC AAG GAG CTG GTC ACA AAG GCA GAA ATG CTC	G GAG AGA GTC 1044
ATC AAA AAT TAC AAG CGC TGC TTT CCT GTG ATC	C TTC GGC AAA 1086
GCC TCC GAG TCC CTG AAG ATG ATC TTT GGC ATT	GAC GTG AAG 1128
GAA GTG GAC CCC ACC AGC AAC ACC TAC ACC CTT	GTC ACC TGC 1170
CTG GGC CTT TCC TAT GAT GGC CTG CTG GGT AAT	AAT CAG ATC 1212
TTT CCC AAG ACA GGC CTT CTG ATA ATC GTC CTG	GGC ACA ATT 1254
GCA ATG GAG GGC GAC AGC GCC TCT GAG GAG GAA	A ATC TGG GAG 1296
GAG CTG GGT GTG ATG GGG GTG TAT GAT GGG AGG	G GAG CAC ACT 1338
GTC TAT GGG GAG CCC AGG AAA CTG CTC ACC CAA	A GAT TGG GTG 1380
CAG GAA AAC TAC CTG GAG TAC CGG CAG GTA CCC	GGC AGT AAT 1422
CCT GCG CGC TAT GAG TTC CTG TGG GGT CCA AGC	GCT CTG GCT 1464
CCT GCG CGC TAT GAG TTC CTG TGG GGT CCA AGC GAA ACC AGC TAT GTG AAA GTC CTG GAG CAT GTG AAT GCA AGA GTT CGC ATT GCC TAC CCA TCC CTG GCT TTG TTA GAG GAG GAA GAG GGA GTC TGA	G GTC AGG GTC 1506
AAT GCA AGA GTT CGC ATT GCC TAC CCA TCC CTC	G CGT GAA GCA 1548
GCT TTG TTA GAG GAG GAA GAG GGA GTC TGA	1578
GCATGAGTTG CAGCCAGGGC TGTGGGGAAG GGGCAGGGCT	GGGCCAGTGC 1628
GCATGAGTTG CAGCCAGGGC TGTGGGGAAG GGGCAGGGCTATCTAACAGC CCTGTGCAGC AGCTTCCCTT GCCTCGTGTACATTCTTCAC TCTGTTTGAA GAAAATAGTC AGTGTTCTTA	A ACATGAGGCC 1678
CATTCTTCAC TCTGTTTGAA GAAAATAGTC AGTGTTCTTA	A GTAGTGGGTT 1728
TCTATTTTGT TGGATGACTT GGAGATTTAT CTCTGTTTCC	C TTTTACAATT 1778
GTTGAAATGT TCCTTTTAAT GGATGGTTGA ATTAACTTCA	A GCATCCAAGT 1828
TTATGAATCG TAGTTAACGT ATATTGCTGT TAATATAGTT	TAGGAGTAAG 1878
AGTCTTGTTT TTTATTCAGA TTGGGAAATC CGTTCTATTT	TGTGAATTTG 1928
GGACATAATA ACAGCAGTGG AGTAAGTATT TAGAAGTGTG	AATTCACCGT 1978
GAAATAGGTG AGATAAATTA AAAGATACTT AATTCCCGCC	C TTATGCCTCA 2028
GTCTATTCTG TAAAATTTAA AAATATATAT GCATACCTGG	
CTTCGTGAAT GTAAGAGAAA TTAAATCTGA ATAAATAATT	
ACTGGCTCAT TTCTTCTCTA TGCACTGAGC ATCTGCTCTC	
AGGATTAGTA GTGGAGATAC TAGGGTAAGC CAGACACACA	
GGGTATTAAG AGTCTAGGAG CGCGGTCATA TAATTAAGGT	
CCTCTAAGAT GTAGGGGAAA AGTAACGAGT GTGGGTATGG	
GAGAGTGGTC GGGTGTAAAT TCCCTGTGTG GGGCCTTTTC	
AACTCCATTT TCTTCTGAGG GATCTGATTC TAATGAAGCT	
AGGGCCAGAT TCTCAGAGGG AGAGGGAAAA GCCCAGATTC	
TCTGAGCGGT TCCTTTGTGA CAATGGATGA ACAGAGAGGG	A GCCTCTACCT 2528

GGG 2531

- (2) INFORMATION FOR SEQUENCE ID NO: 15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1068 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA to mRNA
 - (ix) FEATURE:
 - (A) NAME/KEY: cDNA MAGE-4
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

G	GGG	CCA	AGC	ACC	TCG	CCT	GAC	GCA	GAG	TCC	TTG	TTC	CGA	40
GAA	GCA	CTC	AGT	AAC	AAG	GTG	GAT	GAG	TTG	GCT	CAT	TTT	CTG	82
CTC	CGC	AAG	TAT	CGA	GCC	AAG	GAG	CTG	GTC	ACA	AAG	GCA	GAA	124
ATG	CTG	GAG	AGA	GTC	ATC	AAA	AAT	TAC	AAG	CGC	TGC	TTT	CCT	166
GTG	ATC	TTC	GGC	AAA	GCC	TCC	GAG	TCC	CTG	AAG	ATG	ATC	TTT	208
GGC	ATT	GAC	GTG	AAG	GAA	GTG	GAC	CCC	GCC	AGC	AAC	ACC	TAC	250
ACC	CTT	GTC	ACC	TGC	CTG	GGC	CTT	TCC	TAT	GAT	GGC	CTG	CTG	292
GGT	AAT	AAT	CAG	ATC	TTT	CCC	AAG	ACA	GGC	CTT	CTG	ATA	ATC	334
GTC	CTG	GGC	ACA	ATT	GCA	ATG	GAG	GGC	GAC	AGC	GCC	TCT	GAG	376
GAG	GAA	ATC	TGG	GAG	GAG	CTG	GGT	GTG	ATG	GGG	GTG	TAT	GAT	418
GGG	AGG	GAG	CAC	ACT	GTC	TAT	GGG	GAG	CCC	AGG	AAA	CTG	CTC	460
ACC	CAA	GAT	TGG	GTG	CAG	GAA	AAC	TAC	CTG	GAG	TAC	CGG	CAG	502
GTA	CCC	GGC	AGT	AAT	CCT	GCG	CGC	TAT	GAG	TTC	CTG	TGG	GGT	544
CCA	AGG	GCT	CTG	GCT	GAA	ACC	AGC	TAT	GTG	AAA	GTC	CTG	GAG	586
CAT	GTG	GTC	AGG	GTC	AAT	GCA	AGA	GTT	CGC	ATT	GCC	TAC	CCA	628
TCC	CTG	CGT	GAA	GCA	GCT	TTG	TTA	GAG	GAG	GAA	GAG	GGA	GTC	670
TGA	CAT	GAG :	rtgc?	AGCC?	AG GO	GCTG:	rggg	3 AAC	GGGG	CAGG	GCT	GGGC	CAG	720
TGC	ATCTA	AAC A	AGCC	CTGT	GC AC	GCAG(CTTC	CT:	rgcc:	rcgt	GTA	ACATO	GAG	770
GCC	CATTO	CTT (CACT	CTGT	ΓT G	\AGA/	AAATA	A GTO	CAGT	FTTC	TTAC	GTAG:	rgg	820
GTT	CTA:	TTT	rgtt	GGAT	GA CI	rtgg <i>i</i>	AGAT?	r TA	rctc1	rgtt	TCC	CTTT?	ACA	870
ATTO	GTTGA	AAA :	rgtt(CCTT	TT A	ATGG	ATGGT	r TG2	ATTA	AACT	TCA	GCAT(CCA	920
AGT:	TAT	SAA :	rcgt <i>i</i>	AGTTA	AA CC	TATE	ATTGO	C TG:	TAAT	ATA	GTT	ragg <i>i</i>	AGT	970
AAG	AGTC:	TG :	rttt:	TATT	C A	TTAE	GGA	TA A	CCGTT	CTA	TTT	rgtg <i>i</i>	YAT	1020
TTG	GAC	ATA A	AATA	CAGC	AG TO	GAG:	[AAG]	TA T	rtag <i>i</i>	AAGT	GTG	TTA	C	1068

- (2) INFORMATION FOR SEQUENCE ID NO: 16:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2226 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: genomic DNA
 - (ix) FEATURE:
 - (A) NAME/KEY: MAGE-5 gene
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GGATCCAGGC CTTGCCAGGA GAAAGGTGAG GGCCCTGTGT	CACCACACAC	- ^
	· ·	50
GGGACCATTC ACCCCAAGAG GGTGGAGACC TCACAGATTC		
TCCTGTTAGC ACTGGGGGCC TGAGGCTGTG CTTGCAGTCT		
GGCCCATGCA TTCCTCTTCC AGGAGCTCCA GGAAACAGAC		
TGGTCTGAGG CCGTGCCCTC AGGTCACAGA GCAGAGGAGA		50
TAGTGCCAGC AGTGAACGTT TGCCTTGAAT GCACACTAAT	GGCCCCCATC 30	0 (
GCCCCAGAAC ATATGGGACT CCAGAGCACC TGGCCTCACC	CTCTCTACTG 35	50
TCAGTCCTGC AGAATCAGCC TCTGCTTGCT TGTGTACCCT	GAGGTGCCCT 40	0 (
CTCACTTTTT CCTTCAGGTT CTCAGGGGAC AGGCTGACCA	GGATCACCAG 45	50
GAAGCTCCAG AGGATCCCCA GGAGGCCCTA GAGGAGCACC	AAAGGAGAAG 50	0 (
ATCTGTAAGT AAGCCTTTGT TAGAGCCTCC AAGGTTCAGT		
GGCTTCTCAC ATGCTCCCTC TCTCTCCAGG CCAGTGGGTC		
AGCTCCTGCC CACACTCCTG CCTGTTGCGG TGACCAGAGT		
ATG TCT CTT GAG CAG AAG AGT CAG CAC TGC AAG	•	
CTC CTC TGG TCC CAG GCA CCC TGG GGG AGG TGC		
	CCT CCG CCA 77	
TCC CCA CTG CCA TCG ATT TCA CTC TAT GGA GGC		
AGG GCT CCA GCA ACC AAG AAG AGG AGG GGC CAA		
CTG ACC CAG AGT CTG TGT TCC GAG CAG CAC TCA		
TGG CTG ACT TGA	90	
TTCATTTTCT GCTCCTCAAG TATTAAGTCA AGGAGCTGGT		
GAAATGCTGG AGAGCGTCAT CAAAAATTAC AAGCGCTGCT	TTCCTGAGAT 100	8(
CTTCGGCAAA GCCTCCGAGT CCTTGCAGCT GGTCTTTGGC	ATTGACGTGA 105	58
AGGAAGCGGA CCCCACCAGC AACACCTACA CCCTTGTCAC	CTGCCTGGGA 110	8(
CTCCTATGAT GGCCTGCTGG TTGATAATAA TCAGATCATG	CCCAAGACGG 115	58
GCCTCCTGAT AATCGTCTTG GGCATGATTG CAATGGAGGG	CAAATGCGTC 120	8(
CCTGAGGAGA AAATCTGGGA GGAGCTGAGT GTGATGAAGG		
GAGGGAGCAC AGTGTCTGTG GGGAGCCCAG GAAGCTGCTC		
TGGTGCAGGA AAACTACCTG GAGTACCGGC AGGTGCCCAG		
ATATGCTATG AGTTACTGTG GGGTCCAAGG GCACTCGCTG		
CTGGAGCACG TGGTCAGGGT CAATGCAAGA GTTCTCATTT		
CCTGCGTGAA GCAGCTTTGA GAGAGGAGGA AGAGGGAGTC		
CTGCAGCCAG GGCCACTGCG AGGGGGGCTG GGCCAGTGCA		
•		
	CCCATTCTTC 160	
TCTCTTTGAA GAGAGCAGTC AACATTCTTA GTAGTGGGTT		
TGGATGACTT TGAGATTTGT CTTTGTTTCC TTTTGGAATT		
TTCTTTTAAT GGGTGGTTGA ATGAACTTCA GCATTCAAAT		
CAGTAGTCAC ACATAGTGCT GTTTATATAG TTTAGGAGTA		
TTTTTATTCA GATTGGGAAA TCCATTCCAT TTTGTGAATT	GGGACATAGT 185	58
TACAGCAGTG GAATAAGTAT TCATTTAGAA ATGTGAATGA	GCAGTAAAAC 190	8(
TGATGACATA AAGAAATTAA AAGATATTTA ATTCTTGCTT	ATACTCAGTC 195	58
TATTCGGTAA AATTTTTTTT AAAAAATGTG CATACCTGGA	TTTCCTTGGC 200	8(
TTCTTTGAGA ATGTAAGACA AATTAAATCT GAATAAATCA		
TCACTGGCTC ATTTATTCTC TATGCACTGA GCATTTGCTC		
CCTGGGTTAA TAGTGGAGAT GCTAAGGTAA GCCAGACTCA		
CAGGGTAGTA AAGTCTAGGA GCAGCAGTCA TATAATTAAG		
GCCCTCTAAG ATGTAGAG	222	
GCCCICIAAG AIGIAGAG	222	,

- (2) INFORMATION FOR SEQUENCE ID NO: 17:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2305 base pairs
 (B) TYPE; nucleic acid
 (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
 - (ix) FEATURE:
 - (A) NAME/KEY: MAGE-51 gene
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GGATCCAGGC CTTGCCAGGA GAAAGGTGAG GGCCCTGTGT	GAGCACAGAG 5	0
GGGACCATTC ACCCCAAGAG GGTGGAGACC TCACAGATTC	CAGCCTACCC 10	0
TCCTGTTAGC ACTGGGGGCC TGAGGCTGTG CTTGCAGTCT	GCACCCTGAG 15	0
GGCCCATGCA TTCCTCTTCC AGGAGCTCCA GGAAACAGAC	ACTGAGGCCT 20	0
TGGTCTGAGG CCGTGCCCTC AGGTCACAGA GCAGAGGAGA	TGCAGACGTC 25	0
TAGTGCCAGC AGTGAACGTT TGCCTTGAAT GCACACTAAT	GGCCCCCATC 30	0
GCCCCAGAAC ATATGGGACT CCAGAGCACC TGGCCTCACC	CTCTCTACTG 35	0
TCAGTCCTGC AGAATCAGCC TCTGCTTGCT TGTGTACCCT	GAGGTGCCCT 40	0
CTCACTTTTT CCTTCAGGTT CTCAGGGGAC AGGCTGACCA	GGATCACCAG 45	0
GAAGCTCCAG AGGATCCCCA GGAGGCCCTA GAGGAGCACC	AAAGGAGAAG 50	0
ATCTGTAAGT AAGCCTTTGT TAGAGCCTCC AAGGTTCAGT	TTTTAGCTGA 55	0
GGCTTCTCAC ATGCTCCCTC TCTCTCCAGG CCAGTGGGTC	TCCATTGCCC 60	0
AGCTCCTGCC CACACTCCTG CCTGTTGCGG TGACCAGAGT	CGTC 64	4
ATG TCT CTT GAG CAG AAG AGT CAG CAC TGC AAG	CCT GAG GAA 68	6
GGC CTT GAC ACC CAA GAA GAG CCC TGG GCC TGG	TGG GTG TGC 72	8
AGG CTG CCA CTA CTG AGG AGC AGG AGG CTG TGT	CCT CCT CCT 77	0
CTC CTC TGG TCC CAG GCA CCC TGG GGG AGG TGC	CTG CTG CTG 81	2
GGT CAC CAG GTC CTC TCA AGA GTC CTC AGG GAG	CCT CCG CCA 85	4
TCC CCA CTG CCA TCG ATT TCA CTC TAT GGA GGC	AAT CCA TTA 89	6
AGG GCT CCA GCA ACC AAG AAG AGG AGG GGC CAA	GCA CCT CCC 93	8
CTG ACC CAG AGT CTG TGT TCC GAG CAG CAC TCA	GTA AGA AGG 98	0
TGG CTG ACT TGA	99	2
TTCATTTTCT GCTCCTCAAG TATTAAGTCA AGGAGCCGGT	CACAAAGGCA 104	2
GAAATGCTGG AGAGCGTCAT CAAAAATTAC AAGCGCTGCT	TTCCTGAGAT 109	2
CTTCGGCAAA GCCTCCGAGT CCTTGCAGCT GGTCTTTGGC	ATTGACGTGA 114	2
AGGAAGCGGA CCCCACCAGC AACACCTACA CCCTTGTCAC	CTGCCTGGGA 119	2
CTCCTATGAT GGCCTGGTGG TTTAATCAGA TCATGCCCAA	GACGGCCTC 124	2
CTGATAATCG TCTTGGGCAT GATTGCAATG GAGGGCAAAT		2
GGAGAAAATC TGGGAGGAGC TGGGTGTGAT GAAGGTGTAT		
AGCACAGTGT CTGTGGGGAG CCCAGGAAGC TGCTCACCCA	AGATTTGGTG 139	2
CAGGAAAACT ACCTGGAGTA CCGCAGGTGC CCAGCAGTGA		
TATGAGTTAC TGTGGGGTCC AAGGGCACTC GCTGCTTGAA		2
CACGTGGTCA GGGTCAATGC AAGAGTTCTC ATTTCCTACC		
TGAAGCAGCT TTGAGAGAGG AGGAAGAGGG AGTCTGAGCA		
CCAGGGCCAC TGCGAGGGGG GCTGGGCCAG TGCACCTTCC		
CCAGTAGTTT CCCCTGCCTT AATGTGACAT GAGGCCCATT		
TGAAGAGAC AGTCAACATT CTTAGTAGTG GGTTTCTGTT		
ACTTTGAGAT TTGTCTTTGT TTCCTTTTGG AATTGTTCAA		
TAATGGGTGG TTGAATGAAC TTCAGCATTC AAATTTATGA	ATGACAGTAG 184	2

TCACACATAG	TGCTGTTTAT	ATAGTTTAGG	AGTAAGAGTC	TTGTTTTTTA	1892
TTCAGATTGG	GAAATCCATT	CCATTTTGTG	AATTGGGACA	TAGTTACAGC	1942
AGTGGAATAA	GTATTCATTT	AGAAATGTGA	ATGAGCAGTA	AAACTGATGA	1992
GATAAAGAAA	TTAAAAGATA	TTTAATTCTT	GCCTTATACT	CAGTCTATTC	2042
GGTAAAATTT	TTTTTTAAAA	ATGTGCATAC	CTGGATTTCC	TTGGCTTCTT	2092
TGAGAATGTA	AGACAAATTA	AATCTGAATA	AATCATTCTC	CCTGTTCACT	2142
GGCTCATTTA	TTCTCTATGC	ACTGAGCATT	TGCTCTGTGG	AAGGCCCTGG	2192
GTTAATAGTG	GAGATGCTAA	GGTAAGCCAG	ACTCACCCCT	ACCCACAGGG	2242
TAGTAAAGTC	TAGGAGCAGC	AGTCATATAA	TTAAGGTGGA	GAGATGCCCT	2292
CTAAGATGTA	GAG				2305

- (2) INFORMATION FOR SEQUENCE ID NO: 18:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 225 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (ix) FEATURE:
 - (A) NAME/KEY: MAGE-6 gene
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

TAT	TTC	TTT	CCT	GTG	ATC	TTC	AGC	AAA	GCT	TCC	GAT	TCC	TTG	42
CAG	CTG	GTC	TTT	GGC	ATC	GAG	CTG	ATG	GAA	GTG	GAC	CCC	ATC	84
GGC	CAC	GTG	TAC	ATC	TTT	GCC	ACC	TGC	CTG	GGC	CTC	TCC	TAC	126
GAT	GGC	CTG	CTG	GGT	GAC	AAT	CAG	ATC	ATG	CCC	AGG	ACA	GGC	168
TTC	CTG	ATA	ATC	ATC	CTG	GCC	ATA	ATC	GCA	AGA	GAG	GGC	GAC	210
TGT	GCC	CCT	GAG	GAG										225

- (2) INFORMATION FOR SEQUENCE ID NO: 19:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1947 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: genomic DNA
 - (ix) FEATURE:
 - (A) NAME/KEY: MAGE-7 gene
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

TGAATGGACA	ACAAGGGCCC	CACACTCCCC	AGAACACAAG	GGACTCCAGA	50
GAGCCCAGCC	TCACCTTCCC	TACTGTCAGT	CCTGCAGCCT	CAGCCTCTGC	100
TGGCCGGCTG	TACCCTGAGG	TGCCCTCTCA	CTTCCTCCTT	CAGGTTCTCA	150
GCGGACAGGC	CGGCCAGGAG	GTCAGAAGCC	CCAGGAGGCC	CCAGAGGAGC	200

ACCGAAGGAG AAGATCTGTA AGTAGGCCTT TGTTAGGGCC TCCAGGGCGT	250
GGTTCACAAA TGAGGCCCCT CACAAGCTCC TTCTCTCCCC AGATCTGTGG	300
GTTCCTCCCC ATCGCCCAGC TGCTGCCCGC ACTCCAGCCT GCTGCCCTGA	350
CCAGAGTCAT CATGTCTTCT GAGCAGAGGA GTCAGCACTG CAAGCCTGAG	400
GATGCCTTGA GGCCCAAGGA CAGGAGGCTC TGGGCCTGGT GGGTGCGCAG	450
GCTCCCGCCA CCGAGGAGCA CGAGGCTGCC TCCTCCTTCA CTCTGATTGA	500
AGGCACCCTG GAGGAGGTGC CTGCTGCTGG GTCCCCCAGT CCTCCCCTGA	550
GTCTCAGGGT TCCTCCTTTT CCCTGACCAT CAGCAACAAC ACTCTATGGA	600
GCCAATCCAG TGAGGGCACC AGCAGCCGGG AAGAGGAGGG GCCAACCACC	650
TAGACACCC CCGCTCACCT GGCGTCCTTG TTCCA	685
ATG GGA AGG TGG CTG AGT TGG TTC GCT TCC TGC TGC ACA AGT	727
ATC GAG TCA AGG AGC TGG TCA CAA AGG CAG AAA TGC TGG ACA	769
GTG TCA TCA AAA ATT ACA AGC ACT AGT TTC CTT GTG ATC TAT	811
GGC AAA GCC TCA GAG TGC ATG CAG GTG ATG TTT GGC ATT GAC	853
ATG AAG GAA GTG GAC CCC GCG GCC ACT CCT ACG TCC TTG TCA	895
CCT GCT TGG GCC TCT CCT ACA ATG GCC TGC TGG GTG ATG ATC	937
AGA GCA TGC CCG AGA CCG GCC TTC TGA	964
TTATGGTCTT GACCATGATC TTAATGGAGG GCCACTGTGC CCCTGAGGAG	1014
GCAATCTGGG AAGCGTTGAG TGTAATGGTG TATGATGGGA TGGAGCAGTT	1064
TCTTTGGGCA GCTGAGGAAG CTGCTCACCC AAGATTGGGT GCAGGAAAAC	1114
TACCTGCAAT ACCGCCAGGT GCCCAGCAGT GATCCCCCGT GCTACCAGTT	1164
CCTGTGGGGT CCAAGGGCCC TCATTGAAAC CAGCTATGTG AAAGTCCTGG	1214
AGTATGCAGC CAGGGTCAGT ACTAAAGAGA GCATTTCCTA CCCATCCCTG	1264
CATGAAGAGG CTTTGGGAGA GGAGGAAGAG GGAGTCTGAG CAGAAGTTGC	1314
AGCCAGGGCC AGTGGGGCAG ATTGGGGGAG GGCCTGGGCA GTGCACGTTC	1364
CACACATCCA CCACCTTCCC TGTCCTGTTA CATGAGGCCC ATTCTTCACT	1414
CTGTGTTTGA AGAGAGCAGT CAATGTTCTC AGTAGCGGGG AGTGTGTTGG	1464
GTGTGAGGGA ATACAAGGTG GACCATCTCT CAGTTCCTGT TCTCTTGGGC	1514
GATTTGGAGG TTTATCTTTG TTTCCTTTTG CAGTCGTTCA AATGTTCCTT	1564
TTAATGGATG GTGTAATGAA CTTCAACATT CATTTCATGT ATGACAGTAG	1614
GCAGACTTAC TGTTTTTAT ATAGTTAAAA GTAAGTGCAT TGTTTTTAT	1664
TTATGTAAGA AAATCTATGT TATTTCTTGA ATTGGGACAA CATAACATAG	1714
CAGAGGATTA AGTACCTTTT ATAATGTGAA AGAACAAAGC GGTAAAATGG	1764
GTGAGATAAA GAAATAAAGA AATTAAATTG GCTGGGCACG GTGGCTCACG	1814
CCTGTAATCC CAGCACTTTA GGAGGCAGAG GCACGGGGAT CACGAGGTCA	1864
GGAGATCGAG ACCATTCTGG CTAACACAGT GAAACACCAT CTCTATTAAA	1914
AATACAAAAC TTAGCCGGGC GTGGTGGCGG GTG	1947

- (2) INFORMATION FOR SEQUENCE ID NO: 20:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1810 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: genomic DNA
 - (ix) FEATURE:
 - (A) NAME/KEY: MAGE-8 gene
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

GAGCTCCAGG AACCAGGCTG TGAGGTCTTG GTCTGAGGCA GT	TATCTTCAA 50
TCACAGAGCA TAAGAGGCCC AGGCAGTAGT AGCAGTCAAG C'	TGAGGTGGT 100
GTTTCCCCTG TATGTATACC AGAGGCCCCT CTGGCATCAG AZ	ACAGCAGGA 150
ACCCCACAGT TCCTGGCCCT ACCAGCCCTT TTGTCAGTCC TC	GGAGCCTTG 200
GCCTTTGCCA GGAGGCTGCA CCCTGAGATG CCCTCTCAAT T	TCTCCTTCA 250
GGTTCGCAGA GAACAGGCCA GCCAGGAGGT CAGGAGGCCC CA	AGAGAAGCA 300
CTGAAGAAGA CCTGTAAGTA GACCTTTGTT AGGGCATCCA GO	
CCCAGCTGAG GCCTCTCACA CGCTTCCTCT CTCCCCAGGC CT	
CAATTGCCCA GCTCCGGCCC ACACTCTCCT GCTGCCCTGA CO	CTGAGTCAT 450
C	451
ATG CTT CTT GGG CAG AAG AGT CAG CGC TAC AAG GG	
GGC CTT CAG GCC CAA GGA GAG GCA CCA GGG CTT AT	
CAG ATT CCC ACA GCT GAG GAG CAG AAG GCT GCA TO	
TCT ACT CTG ATC ATG GGA ACC CTT GAG GAG GTG AC	
GGG TCA CCA AGT CCT CCC CAG AGT CCT GAG GGT GG	
TCC CTG ACT GTC ACC GAC AGC ACT CTG TGG AGC CA	AA TCC GAT 703
GAG GGT TCC AGC AGC AAT GAA GAG GAG GGG CCA AG	GC ACC TCC 745
CCG GAC CCA GCT CAC CTG GAG TCC CTG TTC CGG GA	AA GCA CTT 787
GAT GAG AAA GTG GCT GAG TTA GTT CGT TTC CTG CT	TC CGC AAA 829
TAT CAA ATT AAG GAG CCG GTC ACA AAG GCA GAA AT	TG CTT GAG 871
AGT GTC ATC AAA AAT TAC AAG AAC CAC TTT CCT GA	AT ATC TTC 913
AGC AAA GCC TCT GAG TGC ATG CAG GTG ATC TTT GC	GC ATT GAT 955
GTG AAG GAA GTG GAC CCT GCC GGC CAC TCC TAC AT	TC CTT GTC 997
ACC TGC CTG GGC CTC TCC TAT GAT GGC CTG CTG GG	GT GAT GAT 1039
CAG AGT ACG CCC AAG ACC GGC CTC CTG ATA ATC GT	TC CTG GGC 1081
ATG ATC TTA ATG GAG GGC AGC CGC GCC CCG GAG GA	AG GCA ATC 1123
TGG GAA GCA TTG AGT GTG ATG GGG GCT GTA TGA	1156
TGGGAGGGAG CACAGTGTCT ATTGGAAGCT CAGGAAGCTG CT	TCACCCAAG 1206
AGTGGGTGCA GGAGAACTAC CTGGAGTACC GCCAGGCGCC CC	GGCAGTGAT 1256
CCTGTGCGCT ACGAGTTCCT GTGGGGTCCA AGGGCCCTTG CT	TGAAACCAG 1306
CTATGTGAAA GTCCTGGAGC ATGTGGTCAG GGTCAATGCA AG	GAGTTCGCA 1356
TTTCCTACCC ATCCCTGCAT GAAGAGGCTT TGGGAGAGGA GA	AAAGGAGTT 1406
TGAGCAGGAG TTGCAGCTAG GGCCAGTGGG GCAGGTTGTG GG	GAGGGCCTG 1456
GGCCAGTGCA CGTTCCAGGG CCACATCCAC CACTTTCCCT GG	CTCTGTTAC 1506
ATGAGGCCCA TTCTTCACTC TGTGTTTGAA GAGAGCAGTC AC	CAGTTCTCA 1556
GTAGTGGGGA GCATGTTGGG TGTGAGGGAA CACAGTGTGG AG	CCATCTCTC 1606
AGTTCCTGTT CTATTGGGCG ATTTGGAGGT TTATCTTTGT T	
AATTGTTCCA ATGTTCCTTC TAATGGATGG TGTAATGAAC T	TCAACATTC 1706
ATTTTATGTA TGACAGTAGA CAGACTTACT GCTTTTTATA TA	
GTAAGAGTCT TGCTTTTCAT TTATACTGGG AAACCCATGT TA	
ATTC	1810

(2) INFORMATION FOR SEQUENCE ID NO: 21:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1412 base pairs (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: genomic DNA
- (ix) FEATURE:

(A) NAME/KEY: MAGE-9 gene (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

TCTGAG	ACAG	TGTC	CTCA	GG TO	CGCA	GAGC!	A GA	GGAG?	ACCC	AGG	CAGT	GTC	50
AGCAGT	GAAG	GTGA	AGTG:	TT C	ACCC	rgaa:	r GT	GCAC	CAAG	GGC	CCCA	CCT	100
GCCCCA	GCAC .	ACAT	GGGA(CC CC	CATA	GCAC(C TG	GCCC(CATT	CCC	CCTA	CTG	150
TCACTC	ATAG .	AGCC'	TTGA:	rc To	CTGC	AGGC:	r Ago	CTGC	ACGC	TGA	STAG	CCC	200
TCTCAC	TTCC	TCCC:	rcag(GT TO	CTCG	GAC!	A GG	CTAA	CCAG	GAG	GACA	GGA	250
GCCCCA	AGAG	GCCC	CAGA	GC AC	GCAC:	rgac(G AA	GACC'	rgta	AGT	CAGC	CTT	300
TGTTAG	AACC	TCCA	AGGT	rc go	GTTC:	rcag(C TG	AAGT	CTCT	CAC	ACAC'	rcc	350
CTCTCT	CCCC .	AGGC	CTGT	GG G	CTC	CATC	G CC	CAGC'	rcct	GCC	CACG	CTC	400
CTGACT													427
ATG TC	T CTC	GAG	CAG	AGG	AGT	CCG	CAC	TGC	AAG	CCT	GAT	GAA	469
GAC CT	T GAA	GCC	CAA	GGA	GAG	GAC	TTG	GGC	CTG	ATG	GGT	GCA	
CAG GA	A CCC	ACA	GGC	GAG	GAG	GAG	GAG	ACT	ACC	TCC	TCC	TCT	553
GAC AG													
CCT CC	C CAG	AGT	CCT	CAG	GGA	GGC	GCT	TCC	TCC	TCC	ATT	TCC	637
GTC TA	C TAC	ACT	TTA	TGG	AGC	CAA	TTC	GAT	GAG	GGC	TCC	AGC	679
AGT CA	A GAA	GAG	_			-							721
CAG CT												GTG	
GCT GA	G TTG	GTT	CAT	TTC	CTG	CTC	CAC	AAA	TAT	CGA	GTC	AAG	805
GAG CC	G GTC	ACA	AAG	GCA	GAA	ATG	CTG	GAG	AGC	GTC	ATC	AAA	847
													889
	C ATG												
GAC CC													
													1015
													1057
AAA GA													1099
AGT GT	G ATG	GGG	GTG	TAT	GTT	GGG	AAG	GAG	CAC	ATG	TTC	TAC	1141
GGG GA	G CCC	AGG	AAG	CTG	CTC	ACC	CAA	GAT	TGG	GTG	CAG	GAA	1183
AAC TA	C CTG	GAG	TAC	CGG	CAG	GTG	CCC	GGC	AGT	GAT	CCT	GCG	1225
	C GAG											ACC	
	T GAG												
AGA GA	G CCC	ATC	TGC	TAC	CCA	TCC	CTT	TAT	GAA	GAG	GTT	TTG	1351
GGA GA	g gag	CAA	GAG	GGA	GTC	TGA							1375
GCACCAGCCG CAGCCGGGGC CAAAGTTTGT GGGGTCA								1412					

(2) INFORMATION FOR SEQUENCE ID NO: 22:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 920 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: genomic DNA
- (ix) FEATURE:
 - (A) NAME/KEY: MAGE-10 gene
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

ACCTGCTCCA GGACAAAGTG GACCCCACTG CATCAGCTCC ACCTACCCTA	50
CTGTCAGTCC TGGAGCCTTG GCCTCTGCCG GCTGCATCCT GAGGAGCCAT	100
CTCTCACTTC CTTCTTCAGG TTCTCAGGGG ACAGGGAGAG CAAGAGGTCA	150
AGAGCTGTGG GACACCACAG AGCAGCACTG AAGGAGAAGA CCTGTAAGTT	200
GGCCTTTGTT AGAACCTCCA GGGTGTGGTT CTCAGCTGTG GCCACTTACA	250
CCCTCCCTCT CTCCCCAGGC CTGTGGGTCC CCATCGCCCA AGTCCTGCCC	300
ACACTCCCAC CTGCTACCCT GATCAGAGTC ATC	333
ATG CCT CGA GCT CCA AAG CGT CAG CGC TGC ATG CCT GAA GAA	A 375
GAT CTT CAA TCC CAA AGT GAG ACA CAG GGC CTC GAG GGT GCA	417
CAG GCT CCC CTG GCT GTG GAG GAG GAT GCT TCA TCA TCC ACT	459
TCC ACC AGC TCC TCT TTT CCA TCC TCT TTT CCC TCC TC	501
TCT TCC TCC TCC TCC TGC TAT CCT CTA ATA CCA AGC ACC	543
CCA GAG GAG GTT TCT GCT GAT GAT GAG ACA CCA AAT CCT CCC	585
CAG AGT GCT CAG ATA GCC TGC TCC TCC CCC TCG GTC GTT GCT	627
TCC CTT CCA TTA GAT CAA TCT GAT GAG GGC TCC AGC AGC CAA	A 669
AAG GAG GAG AGT CCA AGC ACC CTA CAG GTC CTG CCA GAC AGT	711
GAG TCT TTA CCC AGA AGT GAG ATA GAT GAA AAG GTG ACT GAT	753
TTG GTG CAG TTT CTG CTC TTC AAG TAT CAA ATG AAG GAG CCC	795
ATC ACA AAG GCA GAA ATA CTG GAG AGT GTC ATA AAA AAT TAT	837
GAA GAC CAC TTC CCT TTG TTG TTT AGT GAA GCC TCC GAG TGC	879
ATG CTG CTG GTC TTT GGC ATT GAT GTA AAG GAA GTG GAT CC	920

- (2) INFORMATION FOR SEQUENCE ID NO: 23:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: genomic DNA
 - (ix) FEATURE:
 - (A) NAME/KEY: MAGE-11 gene
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

AGAGAACAGG	CCAACCTGGA	GGACAGGAGT	CCCAGGAGAA	CCCAGAGGAT	50
CACTGGAGGA	GAACAAGTGT	AAGTAGGCCT	TTGTTAGATT	CTCCATGGTT	100
CATATCTCAT	CTGAGTCTGT	TCTCACGCTC	CCTCTCTCCC	CAGGCTGTGG	150
GGCCCCATCA	CCCAGATATT	TCCCACAGTT	CGGCCTGCTG	ACCTAACCAG	200
AGTCATCATG	CCTCTTGAGC	AAAGAAGTCA	GCACTGCAAG	CCTGAGGAAG	250
CCTTCAGGCC	CAAGAAGAAG	ACCTGGGCCT	GGTGGGTGCA	CAGGCTCTCC	300
AAGCTGAGGA	GCAGGAGGCT	GCCTTCTTCT	CCTCTACTCT	GAATGTGGGC	350
ACTCTAGAGG	AGTTGCCTGC	TGCTGAGTCA	CCAAGTCCTC	CCCAGAGTCC	400
TCAGGAAGAG	TCCTTCTCTC	CCACTGCCAT	GGATGCCATC	TTTGGGAGCC	450
TATCTGATGA	GGGCTCTGGC	AGCCAAGAAA	AGGAGGGCC	AAGTACCTCG	500
CCTGACCTGA	TAGACCCTGA	GTCCTTTTCC	CAAGATATAC	TACATGACAA	550
GATAATTGAT	TTGGTTCATT	TATTCTCCGC	AAGTATCGAG	TCAAGGGGCT	600
GATCACAAAG	GCAGAA				616
ATG CTG GGC	G AGT GTC AT	C AAA AAT :	FAT GAG GAC	TAC TTT CCT	658
GAG ATA TTT	C AGG GAA GO	CC TCT GTA	IGC ATG CAA	CTG CTC TTT	700

GGC	ATT	GAT	GTG	AAG	GAA	GTG	GAC	CCC	AÇT	AGC	CAC	TCC	TAT	742
GTC	CTT	GTC	ACC	TCC	CTC	AAC	CTC	TCT	TAT	GAT	GGC	ATA	CAG	784
TGT	AAT	GAG	CAG	AGC	ATG	CCC	AAG	TCT	GGC	CTC	CTG	ATA	ATA	826
GTC	CTG	GGT	GTA	ATC	TTC	ATG	GAG	GGG	AAC	TGC	ATC	CCT	GAA	868
				GAA										910
GGA	AGG	GAG	CAC	TTC	CTC	TTT	GGG	GAG	CCC	AAG	AGG	CTC	CTT	952
ACC	CAA	AAT	TGG	GTG	CAG	GAA	AAG	TAC	CTG	GTG	TAC	CGG	CAG	994
GTG	CCC	GGC	ACT	GAT	CCT	GCA	TGC	TAT	GAG	TTC	CTG	TGG	GGT	1036
CCA	AGG	GCC	CAC	GCT	GAG	ACC	AGC	AAG	ATG	AAA	GTT	CTT	GAG	1078
TAC	ATA	GCC	AAT	GCC	AAT	GGG	AGG	GAT	CC					1107

INFORMATION FOR SEQUENCE ID NO: 24: (2)

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2150 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: genomic DNA

(ix) FEATURE:

(A) NAME/KEY: smage-I

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

TCTGTCTGCA TATGCCTCCA CTTGTGTGTA GCAGTCTCAA ATGGATCTCT	50		
CTCTACAGAC CTCTGTCTGT GTCTGGCACC CTAAGTGGCT TTGCATGGGC			
ACAGGTTTCT GCCCCTGCAT GGAGCTTAAA TAGATCTTTC TCCACAGGCC	150		
TATACCCCTG CATTGTAAGT TTAAGTGGCT TTATGTGGAT ACAGGTCTCT	200		
GCCCTTGTAT GCAGGCCTAA GTTTTTCTGT CTGCTTAACC CCTCCAAGTG	250		
AAGCTAGTGA AAGATCTAAC CCACTTTTGG AAGTCTGAAA CTAGACTTTT	300		
ATGCAGTGGC CTAACAAGTT TTAATTTCTT CCACAGGGTT TGCAGAAAAG	350		
AGCTTGATCC ACGAGTTCAG AAGTCCTGGT ATGTTCCTAG AAAG	394		
ATG TTC TCC TGG AAA GCT TCA AAA GCC AGG TCT CCA TTA AGT	436		
CCA AGG TAT TCT CTA CCT GGT AGT ACA GAG GTA CTT ACA GGT	478		
TGT CAT TCT TAT CCT TCC AGA TTC CTG TCT GCC AGC TCT TTT	520		
ACT TCA GCC CTG AGC ACA GTC AAC ATG CCT AGG GGT CAA AAG	565		
AGT AAG ACC CGC TCC CGT GCA AAA CGA CAG CAG TCA CGC AGG	604		
GAG GTT CCA GTA GTT CAG CCC ACT GCA GAG GAA GCA GGG TCT	646		
TCT CCT GTT GAC CAG AGT GCT GGG TCC AGC TTC CCT GGT GGT	688		
TCT GCT CCT CAG GGT GTG AAA ACC CCT GGA TCT TTT GGT GCA	730		
GGT GTA TCC TGC ACA GGC TCT GGT ATA GGT GGT AGA AAT GCT	772		
GCT GTC CTG CCT GAT ACA AAA AGT TCA GAT GGC ACC CAG GCA	814		
GGG ACT TCC ATT CAG CAC ACA CTG AAA GAT CCT ATC ATG AGG	856		
AAG GCT AGT GTG CTG ATA GAA TTC CTG CTA GAT AAA TTT AAG	898		
ATG AAA GAA GCA GTT ACA AGG AGT GAA ATG CTG GCA GTA GTT	940		
AAC AAG AAG TAT AAG GAG CAA TTC CCT GAG ATC CTC AGG AGA	982		
ACT TCT GCA CGC CTA GAA TTA GTC TTT GGT CTT GAG TTG AAG	1024		
GAA ATT GAT CCC AGC ACT CAT TCC TAT TTG CTG GTA GGC AAA	1066		
CTG GGT CTT TCC ACT GAG GGA AGT TTG AGT AGT AAC TGG GGG	1108		
TTG CCT AGG ACA GGT CTC CTA ATG TCT GTC CTA GGT GTG ATC	1150		
TTC ATG AAG GGT AAC CGT GCC ACT GAG CAA GAG GTC TGG CAA	1192		
TTT CTG CAT GGA GTG GGG GTA TAT GCT GGG AAG AAG CAC TTG	1234		
ATC TTT GGC GAG CCT GAG GAG TTT ATA AGA GAT GTA GTG CGG	1276		
GAA AAT TAC CTG GAG TAC CGC CAG GTA CCT GGC AGT GAT CCC	1314		
CCA AGC TAT GAG TTC CTG TGG GGA CCC AGA GCC CAT GCT GAA	1360		
ACA ACC AAG ATG AAA GTC CTG GAA GTT TTA GCT AAA GTC AAT	1402		
GGC ACA GTC CCT AGT GCC TTC CCT AAT CTC TAC CAG TTG GCT	1444		
CTT AGA GAT CAG GCA GGA GGG GTG CCA AGA AGG AGA GTT CAA	1486		
GGC AAG GGT GTT CAT TCC AAG GCC CCA TCC CAA AAG TCC TCT	1528		
AAC ATG TAG	1537		
TTGAGTCTGT TCTGTTGTGT TTGAAAAACA GTCAGGCTCC TAATCAGTAG	1587		
AGAGTTCATA GCCTACCAGA ACCAACATGC ATCCATTCTT GGCCTGTTAT	1637		
ACATTAGTAG AATGGAGGCT ATTTTTGTTA CTTTTCAAAT GTTTGTTTAA	1687		

CTAAACAGTG	CTTTTTGCCA	TGCTTCTTGT	TAACTGCATA	AAGAGGTAAC	1737
TGTCACTTGT	CAGATTAGGA	CTTGTTTTGT	TATTTGCAAC	AAACTGGAAA	1787
ACATTATTTT	GTTTTTACTA	AAACATTGTG	TAACATTGCA	TTGGAGAAGG	1837
GATTGTCATG	GCAATGTGAT	ATCATACAGT	GGTGAAACAA	CAGTGAAGTG	1887
GGAAAGTTTA	TATTGTTAAT	TTTGAAAATT	TTATGAGTGT	GATTGCTGTA	1937
TACTTTTTTC	TTTTTTGTAT	AATGCTAAGT	GAAATAAAGT	TGGATTTGAT	1987
GACTTTACTC	AAATTCATTA	GAAAGTAAAT	CGTAAAACTC	TATTACTTTA	2037
TTATTTTCTT	CAATTATGAA	TTAAGCATTG	GTTATCTGGA	AGTTTCTCCA	2087
GTAGCACAGG	ATCTAGTATG	AAATGTATCT	AGTATAGGCA	CTGACAGTGA	2137
GTTATCAGAG	TCT				2150

- (2) INFORMATION FOR SEQUENCE ID NO: 25:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2099 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: genomic DNA
 - (ix) FEATURE:
 - (A) NAME/KEY: smage-II
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

ACCTTATTGG	GTCTGTCTGC	ATATGCCTCC	ACTTGTGTGT	AGCAGTCTCA	50
AATGGATCTC	TCTCTACAGA	CCTCTGTCTG	TGTCTGGCAC	CCTAAGTGGC	100
TTTGCATGGG	CACAGGTTTC	TGCCCCTGCA	TGGAGCTTAA	ATAGATCTTT	150
CTCCACAGGC	CTATACCCCT	GCATTGTAAG	TTTAAGTGGC	TTTATGTGGA	200
TACAGGTCTC	TGCCCTTGTA	TGCAGGCCTA	AGTTTTTCTG	TCTGCTTAGC	250
CCCTCCAAGT	GAAGCTAGTG	AAAGATCTAA	CCCACTTTTG	GAAGTCTGAA	300
ACTAGACTTT	TATGCAGTGG	CCTAACAAGT	TTTAATTTCT	TCCACAGGGT	350
TTGCAGAAAA	GAGCTTGATC	CACGAGTTCG	GAAGTCCTGG	TATGTTCCTA	400
GAAAGATGTT	CTCCTGGAAA	GCTTCAAAAG	CCAGGTCTCC	ATTAAGTCCA	450
AGGTATTCTC	TACCTGGTAG	TACAGAGGTA	CTTACAGGTT	GTCATTCTTA	500
TCTTTCCAGA	TTCCTGTCTG	CCAGCTCTTT	TACTTCAGCC	CTGAGCACAG	550
TCAACATGCC	TAGGGGTCAA	AAGAGTAAGA	CCCGCTCCCG	TGCAAAACGA	600
CAGCAGTCAC	GCAGGGAGGT	TCCAGTAGTT	CAGCCCACTG	CAGAGGAAGC	650
AGGGTCTTCT	CCTGTTGACC	AGAGTGCTGG	GTCCAGCTTC	CCTGGTGGTT	700
CTGCTCCTCA	GGGTGTGAAA	ACCCCTGGAT	CTTTTGGTGC	AGGTGTATCC	750
TGCACAGGCT	CTGGTATAGG	TGGTAGAAAT	GCTGCTGTCC	TGCCTGATAC	800
AAAAAGTTCA	GATGGCACCC	AGGCAGGGAC	TTCCATTCAG	CACACACTGA	850
AAGATCCTAT	CATGAGGAAG	GCTAGTGTGC	TGATAGAATT	CCTGCTAGAT	900
AAGTTTAAGA	TGAAAGAAGC	AGTTACAAGG	AGTGAAATGC	TGGCAGTAGT	950
TAACAAGAAG	TATAAGGAGC	AATTCCCTGA	GATCCTCAGG	AGAACTTCTG	1000
CACGCCTAGA	ATTAGTCTTT	GGTCTTGAGT	TGAAGGAAAT	TGATCCCAGC	1050
ACTCATTCCT	ATTTGCTGGT	AGGCAAACTG	GGTCTTTCCA	CTGAGGGAAG	1100
TTTGAGTAGT	AACTGGGGGT	TGCCTAGGAC	AGGTCTCCTA	ATGTCTGTCC	1150
TAGGTGTGAT	CTTCATGAAG	GGTAACCGTG	CCACTGAGCA	AGAGGTCTGG	1200
CAATTTCTGC	ATGGAGTGGG	GGTATATGCT	GGGAAGAAGC	ACTTGATCTT	1250
TGGCGAGCCT	GAGGAGTTTA	TAAGAGATGT	AGTGCGGGAA	AATTACCTGG	1300
AGTACCGCCA	GGTACCTGGC	AGTGATCCCC	CAAGCTATGA	GTTCCTGTGG	1350

GGACCCAGAG	CCCATGCTGA	AACAACCAAG	ATGAAAGTCC	TGGAAGTTTT	1400
AGCTAAAGTC	AATGGCACAG	TCCCTAGTGC	CTTCCCTAAT	CTCTACCAGT	1450
TGGCTCTTAG	AGATCAGGCA	GGAGGGGTGC	CAAGAAGGAG	AGTTCAAGGC	1500
AAGGGTGTTC .	ATTCCAAGGC	CCCATCCCAA	AAGTCCTCTA	ACATGTAGTT	1550
GAGTCTGTTC	TGTTGTGTTT	GAAAAACAGT	CAGGCTCCTA	ATCAGTAGAG	1600
AGTTCATAGC	CTACCAGAAC	CAACATGCAT	CCATTCTTGG	CCTGTTATAC	1650
ATTAGTAGAA	TGGAGGCTAT	TTTTGTTACT	TTTCAAATGT	TTGTTTAACT	1700
AAACAGTGCT,	TTTTGCCATG	CTTCTTGTTA	ACTGCATAAA	GAGGTAACTG	1750
TCACTTGTCA	GATTAGGACT	TGTTTTGTTA	TTTGCAACAA	ACTGGAAAAC	1800
ATTATTTTGT	TTTTACTAAA	ACATTGTGTA	ACATTGCATT	GGAGAAGGGA	1850
TTGTCATGGC .	AATGTGATAT	CATACAGTGG	TGAAACAACA	GTGAAGTGGG	1900
AAAGTTTATA	TTGTTAGTTT	TGAAAATTTT	ATGAGTGTGA	TTGCTGTATA	1950
CTTTTTTCTT	TTTTGTATAA	TGCTAAGTGA	AATAAAGTTG	GATTTGATGA	2000
CTTTACTCAA .	ATTCATTAGA	AAGTAAATCA	TAAAACTCTA	TTACTTTATT	2050
ATTTTCTTCA .	ATTATTAATT	AAGCATTGGT	TATCTGGAAG	TTTCTCCAG	2099

∬INFORMATION FOR SEQUENCE ID NO: 26:

(2) LINFORMATION FOR SEQUENCE CHARACTERISTICS:

(A) LENGTH: 9 amino acids

(B) TYPE: amino acids

- 9 amino acids
- amino acids (B) TYPE:
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

Glu Ala Asp Pro Thr Gly His Ser Tyr

- (2) INFORMATION FOR SEQUENCE ID NO: 27
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 nucleotides
 - (B) TYPE; nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27

ACTCAGCTCC TCCCAGATTT

20

- (2) INFORMATION FOR SEQUENCE ID NO: 28
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 nucleotides
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE CHARACTERISTICS: SEQ ID NO: 28

TTGCCAAGAT CTCAGGAA

18